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11016

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<210> 12042
<211> 1366
<212> DNA
<213> Homo sapiens

<400> 12042

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<210> 12043
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<212> DNA
<213> Homo sapiens

<400> 12043

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aagatgtgaa taatctttga cccagcaatt ccatgtttaa acctctacat agtctctcct        840
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11017

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<211> 397
<212> DNA
<213> Homo sapiens

<400> 12044
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<210> 12045
<211> 397
<212> DNA
<213> Homo sapiens

<400> 12045
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<212> DNA
<213> Homo sapiens

<400> 12046
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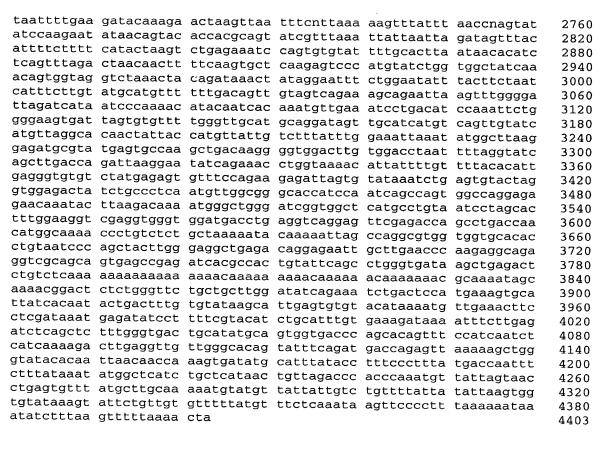
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<211> 486
<212> DNA
<213> Homo sapiens


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<211> 2718
<212> DNA
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11020

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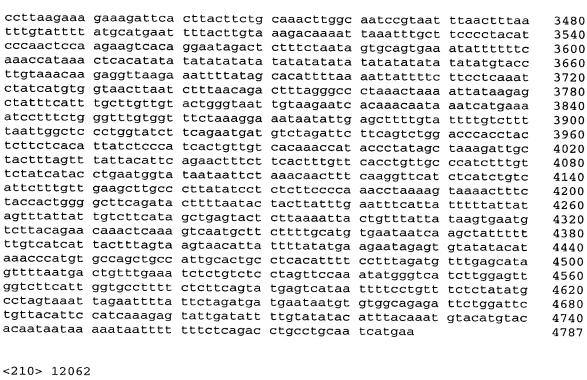
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11036

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<212> DNA
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11045

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11048

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11053

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agttacctgt gtctttctgt gtgcatttga acatgtgtga gcatgcagcc agtgtagcac      2160
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11058

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atagctttat tgtttaaagt gcaaattata ttcagcaatt tgttagtcct cttttgaggc    2460
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cgtaaaagaa ttcattcacc aagattggct gatagttgaa ttctctgtct gaactataaa    2580
gacatagggа aaatttgcac ttaagaaata caagatgact caagtatttg tttaaaactg    2640
aaaagccata aggaagttgg agttgggaca ctacagattt aggagtatgc cttctgttgg    2700
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<210> 12086
<211> 1583
<212> DNA
<213> Homo sapiens

<400> 12086
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gaaaccccac aaccatcagg aaccagtcct cattctcccc tttcctcagc ccctggcgat     180
ctctaaccta ctttttgttt gttttccaat tctggacatt tcctgtaaat gggatctaat     240
aatatgtggc ctttttgtgtc tgcttctttc actaaggaaa aatgatttgc attttactct     300
tgcatgttct gtgttgtttg tgtgggcgta ttcatctagg agaaatcttc ctgaagttcc     360
ttctgtaact aattctgcac tgtccatgga gtcatgttat tgtcagactg gtggccttag     420
agacatgctg ttttctgcaa catcgtgaca caaaagggtg caccctgtaa gaatcatttg     480
ggaatttttg ttctcttttc acaaacacta catctcaaat ttttaatttg atcaaatttg     540
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attgtgaacc atgataaaat cttaaatagt gacaaatgaa gcatgtgata acacaatatt     660
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ttttccatcc attaaatggt tctaatttgc ttactgcttc tgcctgtatt tacttccaaa     780
ccaggtatct gcgagctttt cctgcggcta ctttggaaca gaagaagcca tagtaacata     840
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cacttcaacc aaattgcagc aggggagctg tctcaggtt gggaggagag aggggagact     960
tatttcatga tcttttctct atttcccata cagggaagag atagtatttt attattttt    1020
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catttaaagt gtatggaggc cgggcgccat ggctcatgct gtaatcctag cactttggga    1500
ggccaaggca ggcggctcac ttgaggtcag gaatttcacc agagatggtg gaaccccatc    1560
tctactaaaa aaacaaaaaa aaa                                          1583
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<210> 12087
<211> 1583
<212> DNA
<213> Homo sapiens

<400> 12087
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gaaaccccac aaccatcagg aaccagtcct cattctcccc tttcctcagc ccctggcgat     180
ctctaaccta ctttttgttt gttttccaat tctggacatt tcctgtaaat gggatctaat     240
aatatgtggc ctttttgtgtc tgcttctttc actaaggaaa aatgatttgc attttactct     300
tgcatgttct gtgttgtttg tgtgggcgta ttcatctagg agaaatcttc ctgaagttcc     360
ttctgtaact aattctgcac tgtccatgga gtcatgttat tgtcagactg gtggccttag     420
agacatgctg ttttctgcaa catcgtgaca caaaagggtg caccctgtaa gaatcatttg     480
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11059

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actctcggtg tctgcaattt tctttagaaa ttaagctaac aaacattatg acattgtaat      600
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ttctactttt tacataatgc agagatggca aaattacaca tttaaaataa gtagatatat      720
ttttccatcc attaaatggt tctaatttgc ttactgcttc tgcctgtatt tacttccaaa      780
ccaggtatct gcgagctttt cctgcggcta ctttggaaca gaagaagcca tagtaacata      840
gaggtgaaaa aggggtaaaa ggtttcagga gcacctagga tttcaggccc agtgagaaat      900
cacttcaacc aaattgcagc aggggagctg gtctcaggtt gggaggagag aggggagact      960
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tgcttaggct gatctaaaac tcccgagctc aagccaccct cctgccccag cctcctgaat     1140
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tagaccaatt tagaaaatga agctaaaaga ggtcatctaa gggaaatcgt ttcctaacat     1260
tttgatcccg catgcctatc agcagagaat gttttgagca tgtactccta atgtgtgtac     1320
atttatttaa acattctatg atggaaaatt cttaatttgt atactattta ctgttctact     1380
ttttaaaact ttttaaaatc aattttattg aggtatgatt tacatacaat aaaatgtacc     1440
catttaaagt gtatggaggc cgggcgccat ggctcatgct gtaatcctag cactttggga     1500
ggccaaggca ggcggctcac ttgaggtcag gaatttcacc agagatggtg gaaccccatc     1560
tctactaaaa aaacaaaaaa aaa                                             1583
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<210> 12088
<211> 147
<212> DNA
<213> Homo sapiens

<400> 12088
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ggtcaggaga tccagaccat cctggctaac acggtgaaac cccgtctcta ctaaaaatac       60
aaaaaattag ccgagcgtgg tggcgggcac ctgtaatccc agctactcgg gaggctgagg      120
caggagaatg gcgtgaaccc aggggggg                                        147
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<210> 12089
<211> 184
<212> DNA
<213> Homo sapiens

<400> 12089
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gctgcgatct cggcactttg ggaggccaag gcaggcggct gggaggtgga ggttgtagct       60
agccgagatc acaccactgc actccagcct gggcaagatt gagcactgag tgagcaagac      120
cccgtctgcc atcccggcac ctcgggaggc cgaggctggc ggatcactcg cggttaggag      180
ctgg                                                                  184
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<210> 12090
<211> 1321
<212> DNA
<213> Homo sapiens

<400> 12090
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ctctggtttt cctaggcaga ggaccctgcg gccttccgca gtgtttgtgt ccctgggtac      180
ttgagattag ggagtggtga tgactcttaa cgagtctgct gccttcaagc atctgtttaa      240
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cagagagcac agggttgggg gtaaggtcat agatcaacag catcccaagg cagaagaatt      360
tttcttagta cagaacaaaa tgaagtctcc catgtctact ttctacacag acacagtaac      420
aatccgattt ctctatcatt tccccacctt tccccctttt ctattccaca aaaccgccat      480
cgtcatcatg cccgttctc aatgagctgt tgggtacacc tcccagacgg ggtggtggcc      540
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cagacgatgg gcggcctggc agagacgctc ctcacttcct agacgggatg gcggccggga      660
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11060

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agccgagatc acaccactgc actccagcct gggcaagatt gagcactgag tgagcaagac      900
cccgtctgcc atcccggcac ctcgggaggc cgaggctggc ggatcactcg cggttaggag      960
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tcaggcaggg aggttgcagt gagccgagat ggcagcagta cagtccagcc tcggctccgc     1140
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gaccgtggaa agagagggag agggagaccg tggaaagaga gggagaggga gaccgtggaa     1260
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c                                                                    1321


<210> 12091
<211> 581
<212> DNA
<213> Homo sapiens

<400> 12091
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cactctagat acagaacatt ttcatcagcc ctaaaggttc tcttgtgccc cttctcagtt      180
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tgtaatccca gcactttagg aggccgaggc gagcggatca cgaggtcagg agatccagac      360
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cccaggaggt ggagcttgca ataagccgag atcgcgccac tgcactccag cctgggcgac      540
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<210> 12092
<211> 1511
<212> DNA
<213> Homo sapiens

<400> 12092
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ctggttctac gtttgtgact gtttattgtc tttactcctt tcaccttctg gaaggtaaat      180
gatagctatt attaatatat taaagaggac tagatccaaa agtttgtagt atatgtgtgg      240
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11061

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aaaaaaaaaa a                                                          1511


<210> 12093
<211> 33895
<212> DNA
<213> Homo sapiens

<400> 12093
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11063

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11078

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11079

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<400> 12098

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11081

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11098

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<210> 12105
<211> 482
<212> DNA
<213> Homo sapiens

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ccagcccact cccttgcagg aaagaccgtg gctccaggtc ccccacatta ctgattaaaa      180
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<210> 12106
<211> 1254
<212> DNA
<213> Homo sapiens

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<210> 12107
<211> 482
<212> DNA
<213> Homo sapiens
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<400> 12107

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cc                                                                    482
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<210> 12108
<211> 1254
<212> DNA
<213> Homo sapiens

<400> 12108

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atacaaaaaa ttaaccgggc atggtggcgg gcacctgtaa tcccagctac ttgggaggct     180
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<210> 12109
<211> 1555
<212> DNA
<213> Homo sapiens

<400> 12109

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<210> 12110
<211> 115
<212> DNA
<213> Homo sapiens

<400> 12110

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actgcactcc agcctgggcc acagagcaag attccgtctc aaaaaaaaa aaaaa          115
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<210> 12111
<211> 1555
<212> DNA
<213> Homo sapiens

<400> 12111

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<210> 12112
<211> 8297
<212> DNA

<213> Homo sapiens

<400> 12112

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<211> 181

<212> DNA
<213> Homo sapiens

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<210> 12117
<211> 2293
<212> DNA
<213> Homo sapiens

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<211> 308
<212> DNA
<213> Homo sapiens

11111

<400> 12118
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taaaaacaca aaaaattaag ccgggcgtgg tggcgggtgc ctatggtccc aattactcgg     180
gaggctgagg caggagaatg gcatgaaccc aggaggcgga gcttgcagtg agccgagatc     240
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<212> DNA
<213> Homo sapiens

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<210> 12120
<211> 308
<212> DNA
<213> Homo sapiens

<400> 12120
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gaggctgagg caggagaatg gcatgaaccc aggaggcgga gcttgcagtg agccgagatc     240
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<210> 12121
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<212> DNA
<213> Homo sapiens

<400> 12121
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<212> DNA
<213> Homo sapiens

<400> 12122
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<210> 12123
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<212> DNA
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<400> 12123
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11113

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11116

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11127

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11128

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11130

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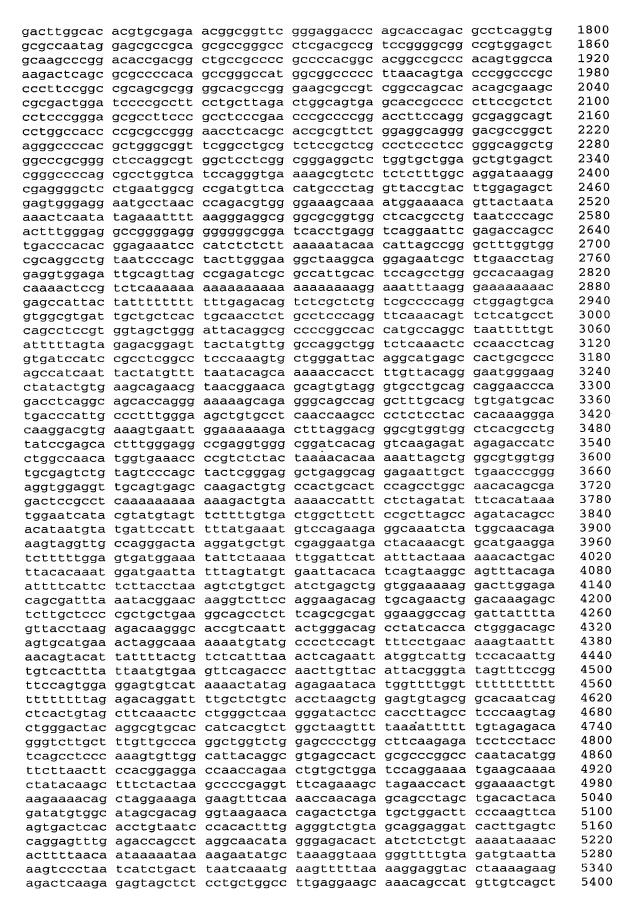caggggaag ggctccattt ggcggagcgc gcgctggcgg ggcgggcact cccgacacag       1560
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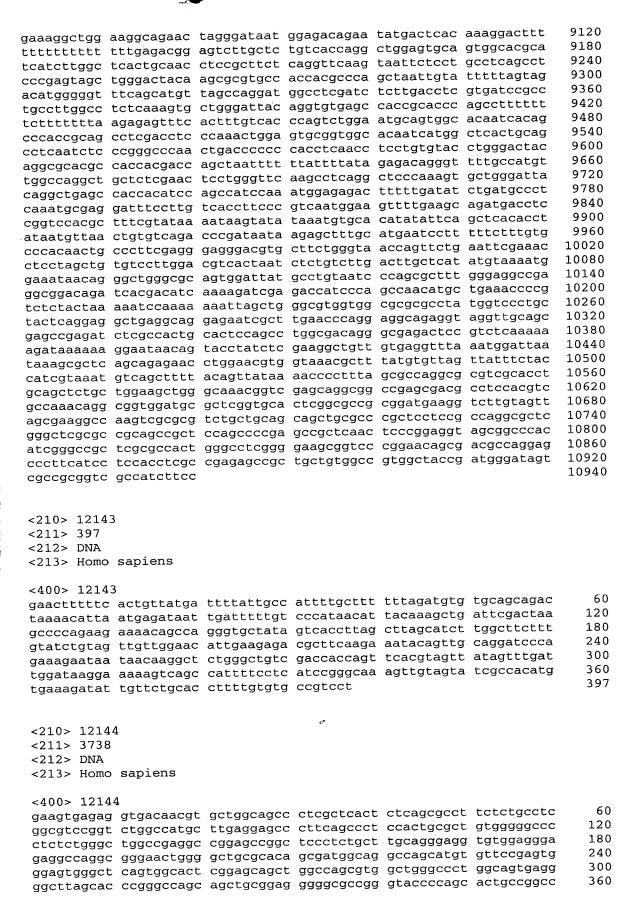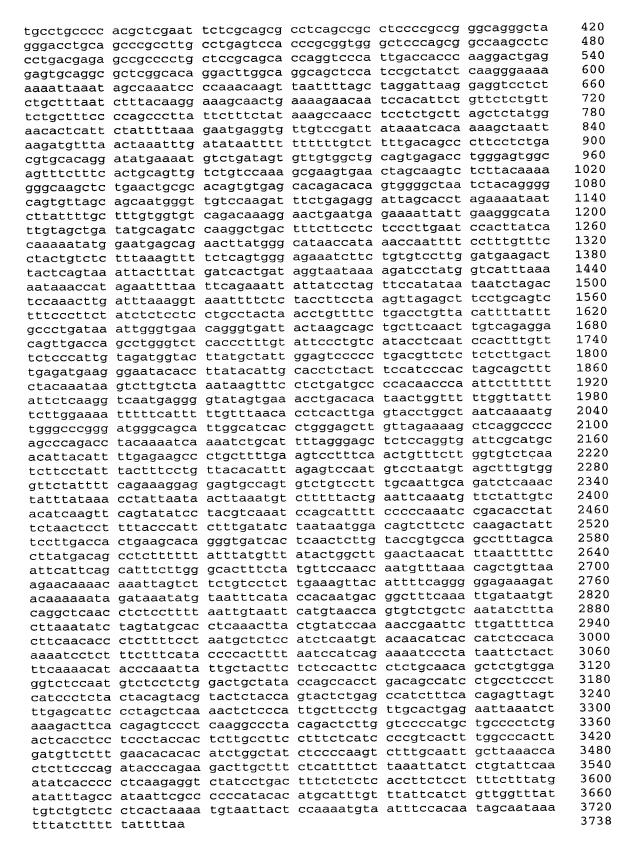gggcccgcct agctgcgccc gctccaccgg ggccgccacg ccgcgcagca ccgggtcccc      1740
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11151

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<212> DNA
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<400> 12149

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11154

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<212> DNA
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<212> DNA
<213> Homo sapiens

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catgggcaac atagttcaac tctgagtctt ggtttcctta tctctgtaat ggggacttaa     360
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<212> DNA
<213> Homo sapiens

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11155

<210> 12154
<211> 410
<212> DNA
<213> Homo sapiens

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gtgaggtttg aagaatcata cacatctttg aactgtctta gctgttgatg atgctgttat   300
catgggcaac atagttcaac tctgagtctt ggtttcctta tctctgtaat ggggacttaa   360
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<210> 12155
<211> 4082
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<211> 322
<212> DNA
<213> Homo sapiens

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11157

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<212> DNA
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cagagccagc cattctctcc cttgatgcac tttgtaacca gctacacatg ctttttaggtg   2940
gcttttccct gatagggtca agtatatgac tataaaacat ttttcttgtg aagctattaa   3000
gttcattagt tactcttatt tccccttgtt gtaactaagt ggtgcaggta taagcatatc   3060
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11158

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ctgtgacata tgtcaatatt tgttagctct ggggatatct ttagaatgct tgagaaagtt    3180
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actttttcta aggtggctga agatttaaaa tagatcattc taaagggaaa tcagtaaaat    3660
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ctttc                                                                3725


<210> 12159
<211> 2082
<212> DNA
<213> Homo sapiens

<400> 12159
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cgggtttcac catcttggcc aggctggtct tgaactcctg accttgtgat ccacctgcct     180
ctgcctccga aagtgctggg atttacaggc gtgagccacc acacctggcc atattttttt     240
attttttatt ccccattgag gtgttttca gagtttatcc ttagtgatcc cagttatgtt     300
ttgctaatgt cagggtggtc tttttatcaa ctactacaat aaaccaccag tcgtgccaga     360
gaaaatgccc aggattaatt tcttttgtag gaagagcagt ttgaactata tggaatcctt     420
caaaattcta agaaagtgtt tgccctgttc tgtatatatt ctgccaaaag ttgttcctaa     480
tagtctagat attgattctt tatgtaagta gggtcttttt aatcaaaagt gaagtgggac     540
caaattgttc agtggcttgt tctcttctaa attgttttta gctgataaga tttgggaaac     600
tttctgggct tccacaaata atatacaata catctttgaa tacttgatgc ttaaaaagtg     660
ttgttactgc atgcaatcag ggagctccag agcttttgc aggctccttg ttcctgagaa     720
gcaatattgt tttcatatta tctcggttat acatttttatg gttgtgacat tgctttcttt     780
ttgtttttgc tgttgttttc tgctgctgct gatttagaaa tgaaataagc taactcttaa     840
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tagatggaga gtggtcttgg tgttatatta gtgtatgatt cgtatttgtt tcataattaa    1020
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taaaaatagc aaacttagta atgtataaag tgacagtagg tcttttttgc ttaaaaatca    1920
gagttcctgt gtagtgtctc tttatgatct ctgtagtaaa aatattattt aacgtagctt    1980
agtgagaagt ttaagaggag tataccttttt actttagggt gcccatgcca ctttgaagtt    2040
atggagtgca aagtagtttc cacacattaa aaaaaaaaa aa                        2082


<210> 12160
<211> 2499
<212> DNA
<213> Homo sapiens
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<400> 12160

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tctacagtgt ttcagatgac aatgctccct ctccttatat ggcaagtatt ttttatattg   180
tatgttttcc tgccaaatca accaacttaa tgacaaattt aagtgctttg atgcagtact   240
tgaaaatata aatcatttcc taacagctga atacaaacta atatgccaaa atattacctc   300
acaacttctt tctaagctag ttcaaacaac agataacctc ttttgcattt aaggatggta   360
ctaaaaatgt acttatttct ctttgtcttg aaaaaatgat aaaaattgat tagtgacact   420
gtaattccat cttgctgagt tcacacacat tctcaaatgc ttagtgtgca ctgtgtcctc   480
tagtcctaca aggctttggt gacataaggc ttctgtatgg ccctttttact cccttttcgg   540
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catctcactc tcttgcctag gctggaatgc agtggtgcag tcatagccca ctgtagcctc   660
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cccaggctgg tcttgaactc ctggcctcaa gcagacctcc cactttggcc ttccaagtgt   840
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ctacttcaga ctcacgctaa tgtcttaatg gagagtgaaa taactaagag gagttacagc   960
aagcttgtcc ggcctacagc ccacatgcaa cccaggaagg ctttgaatgt aacccaacac  1020
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tcatcagcta ttgttagtgt tagtatattt tatgtgtggc ccaagacaat tcttctacca  1140
gtgtggccca gggaagccaa aagattggac acctctgagt tatagtgttg agccttaaga  1200
tcaatcttat gatttcacct ttccaatttt tttattccaa tggcttgtgg ataatataag  1260
cattcatttg caaaaacaat actgagtact agtatatgat tagtatcagc cctcttccaa  1320
aagacaaaga gagacaagta gctagccatg caggtctgta aaaagttgac agtgatggta  1380
tcaaatatgg agtcaaatct gggttttcat tttaggtgtt acttttgaga aatgcagatt  1440
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ggcccaactg cttcctctcc taacaccct ctccacaacc ttctaggttt tcaaggacat  1560
tagtaacaat gacttttgtc attaataaaa gctgtaaaaa gggacatcta tacaattgag  1620
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gcccagtttc ttcaaggaaa gcttactcca ttctaagggt gaagatttta gtcaagagct  1740
tgattagtgt ttgacacttt gatagaaaaa gcagagtggt gactgcttat ttattcaaag  1800
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gttattatcg aaagaagagg ccccccttcac aaacctgccc agttattaca tatgctacct  1920
gttcatttac catagaaaga tgtacccact tttccagaat tattttgaaa aaataactgc  1980
taattttgga cacttaataa aatggaaagt accactgaga taagtttaat accagaataa  2040
atgcatatta tactcgaatg cttacaatat gagaatatag caacagcctg ttttgcctta  2100
ccaggacatc aagaatctga tcagtttcac accttttact ggcatatagt aatagaggat  2160
ggaaagataa ggtctcaaat actgtgatct ggccaggcac agtggctcat atctgaatcc  2220
cagcactttg ggaggctggg cggacagat cacctgaagc tggcagatcg cctgaggcca  2280
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attagccgag catggtggca cacgcctgta atcccagcta ctcaagaggc taaggcagga  2400
gaatcgcttg aacccgggag gcagaggttg cagtgagccg agatcgcgtc attgcactgc  2460
agcctgggcg acaagagcaa aactccatct caaaataaa                          2499
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<210> 12161
<211> 119
<212> DNA
<213> Homo sapiens

<400> 12161

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agaatcgctt gaacccggga ggcagaggtt gcagtgagcc gagatcgtgc cattgcactc    60
cagcctgggc aacaagagca aaactccgtc tccaaaaaaa aaaaaacaa aaacaaaaa     119
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<210> 12162
<211> 2499
<212> DNA
<213> Homo sapiens

<400> 12162

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aggtaggggc aagtggtgct ttctgcccca cacatttgac tcttccagtt gaagtgtcat     120
tctacagtgt ttcagatgac aatgctccct ctccttatat ggcaagtatt ttttatattg     180
tatgttttcc tgccaaatca accaacttaa tgacaaattt aagtgctttg atgcagtact     240
tgaaaatata aatcatttcc taacagctga atacaaacta atatgccaaa atattacctc     300
acaacttctt tctaagctag ttcaaacaac agataacctc ttttgcattt aaggatggta     360
ctaaaaatgt acttatttct ctttgtcttg aaaaaatgat aaaaattgat tagtgacact     420
gtaattccat cttgctgagt tcacacacat tctcaaatgc ttagtgtgca ctgtgtcctc     480
tagtcctaca aggctttggt gacataaggc ttctgtatgg ccctttact ccctttttcgg     540
tttggtttgt ctttgggcct atttttttct aatcctaggg ttctttttttt tttttgacag     600
catctcactc tcttgcctag gctggaatgc agtggtgcag tcatagccca ctgtagcctc     660
aaacttctgg cctcaaacca tcctcttgcc ttggagctcc taaatagctg ggtctacaga     720
tatgcgccac catgcctagc taatttttat gttttgtaga ggcagggcct ccctatattg     780
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ctacttcaga ctcacgctaa tgtcttaatg gagagtgaaa taactaagag gagttacagc     960
aagcttgtcc ggcctacagc ccacatgcaa cccaggaagg ctttgaatgt aacccaacac    1020
aaatttgtaa acattcttaa aacattatga gatttttttg tgtgattttt gtttttttagc    1080
tcatcagcta ttgttagtgt tagtatattt tatgtgtggc ccaagacaat tcttctacca    1140
gtgtggccca gggaagccaa aagattggac acctctgagt tatagtgttg agccttaaga    1200
tcaatcttat gatttcacct ttccaatttt tttattccaa tggcttgtgg ataatataag    1260
cattcatttg caaaaacaat actgagtact agtatatgat tagtatcagc cctcttccaa    1320
aagacaaaga gagacaagta gctagccatg caggtctgta aaaagttgac agtgatggta    1380
tcaaatatgg agtcaaatct gggtttttcat tttaggtgtt acttttgaga aatgcagatt    1440
actgtaggca ttgaacatta tagcctagtc ttgctgcttg aatttcctaa cttactatct    1500
ggcccaactg cttcctctcc taacacccct ctccacaacc ttctaggttt tcaaggacat    1560
tagtaacaat gacttttgtc attaataaaa gctgtaaaaa gggacatcta tacaattgag    1620
aaacaacaga gaggaaagga agctactttt aggaacctat atgtggccta ctcattactg    1680
gcccagtttc ttcaaggaaa gcttactcca ttctaagggt gaagatttta gtcaagagct    1740
tgattagtgt ttgacacttt gatagaaaaa gcagagtggt gactgcttat ttattcaaag    1800
ttttctttttc ccaacaacgt tcacatctgt gggtcataag catgaagatg cccagcatag    1860
gttattatcg aaagaagagg ccccccttcac aaacctgccc agttattaca tatgctacct    1920
gttcatttac catagaaaga tgtacccact tttccagaat tattttgaaa aaataactgc    1980
taattttgga cacttaataa aatggaaagt accactgaga taagtttaat accagaataa    2040
atgcatatta tactcgaatg cttacaatat gagaatatag caacagcctg ttttgcctta    2100
ccaggacatc aagaatctga tcagtttcac acctttttact ggcatatagt aatagaggat    2160
ggaaagataa ggtctcaaat actgtgatct ggccaggcac agtggctcat atctgaatcc    2220
cagcactttg ggaggctggg cggacagat cacctgaagc tggcagatcg cctgaggcca    2280
agagttcaag accagcctag ccaacatgat gaaaccctgt ctctactaat aatacaaaaa    2340
attagccgag catggtggca cacgcctgta atcccagcta ctcaagaggc taaggcagga    2400
gaatcgcttg aacccgggag gcagaggttg cagtgagccg agatcgcgtc attgcactgc    2460
agcctgggcg acaagagcaa aactccatct caaaataaa                          2499
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<210> 12163
<211> 323
<212> DNA
<213> Homo sapiens

<400> 12163
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tctggatgac agaacaaggc tccatctcaa aaaaaaaaaa tgccagaaga aaatgtgttt     60
ttctcttttg tgttaaatat ggtaactttt tctaggtata aatattaata tgctgatcaa    120
ttaaaatgat gaaattatta caataatgat gaataataaa attccaaata atttcccagt    180
ccctttctaa aattcctaac ttgccaatgc tactagtctt aacattgctt acaaattgtt    240
ttaaattgtt gccttcaact ttatggtttt tttcaaaaag ctgtttttttt aaataaattg    300
atttagttac tgtgttctaa aaa                                             323
```

<210> 12164
<211> 492
<212> DNA

<213> Homo sapiens

<400> 12164
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ggaatacaaa gtttaaatga taaagttcct gccttagaga cgtttattgt ctactggaga      60
aggtgggcat ataatttacc caggtgagta aataatttat aaactcaagt aattagcatt     120
gtaatagaag ttgcctagta cttgtgtatc tactatctct gctaaaagga ttgaggaaag     180
ctttactgag gagctgtcat ttgagcttgg tcacaaaaga tgagaaggaa tttgccaggt     240
aaatttgttc aggaatcaga gattctagac aaagggaact tcatgtgcaa acgtaaaaga     300
gcatggcaat gttggaaagg atcaactgga gctagagcat gggactctgt atatgttggg     360
agagatgaaa tgagaggcat ggtggagctt aagtgctgtg ctatgaatgt tgacctcatc     420
ctatagacag caggaaacaa agtttttaag tggtaggtga tactataagg ctttttttcaa     480
aaaaagaaaa ag                                                         492
```

<210> 12165
<211> 323
<212> DNA
<213> Homo sapiens

<400> 12165
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tctggatgac agaacaaggc tccatctcaa aaaaaaaaaa tgccagaaga aaatgtgttt      60
ttctcttttg tgttaaatat ggtaactttt tctaggtata aatattaata tgctgatcaa     120
ttaaaatgat gaaattatta caataatgat gaataataaa attccaaata atttcccagt     180
cccttctaa aattcctaac ttgccaatgc tactagtctt aacattgctt acaaattgtt      240
ttaaattgtt gccttcaact ttatggtttt tttcaaaaag ctgttttttt aaataaattg     300
atttagttac tgtgttctaa aaa                                             323
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<210> 12166
<211> 492
<212> DNA
<213> Homo sapiens

<400> 12166
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ggaatacaaa gtttaaatga taaagttcct gccttagaga cgtttattgt ctactggaga      60
aggtgggcat ataatttacc caggtgagta aataatttat aaactcaagt aattagcatt     120
gtaatagaag ttgcctagta cttgtgtatc tactatctct gctaaaagga ttgaggaaag     180
ctttactgag gagctgtcat ttgagcttgg tcacaaaaga tgagaaggaa tttgccaggt     240
aaatttgttc aggaatcaga gattctagac aaagggaact tcatgtgcaa acgtaaaaga     300
gcatggcaat gttggaaagg atcaactgga gctagagcat gggactctgt atatgttggg     360
agagatgaaa tgagaggcat ggtggagctt aagtgctgtg ctatgaatgt tgacctcatc     420
ctatagacag caggaaacaa agtttttaag tggtaggtga tactataagg ctttttttcaa     480
aaaaagaaaa ag                                                         492
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<210> 12167
<211> 990
<212> DNA
<213> Homo sapiens

<400> 12167
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cctctggctg cctggtttcc ttttctccca catcgtgtct ggcatttctt tattcagaaa    120
tgaggcatct gttgttggct tccctgtgga gtttgtgtcc ctccctgagc tcccgcctct    180
gtggggccag ccccagtgtg gacttgtggc cccctgtgct gctgggcctc aggtttgggt    240
ctgcggagta catgggtgtg agtgctctga ccactggact cttaaaacat gcagccctct    300
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attgaaaaag accttgactc ctgcacccag aggtagcacc aagaacatgg catgcatttc    420
atctccacgt ctcccttctc tcctttcctc ccctgttcat tcattcagcc aatctatcag    480
ccaaccagta agcactcacg gacacccacg tgcgcaggtg ccatggaggc agccgagtgt    540
ggggactgct gtggcagagc tggcagcctt gtgtgcttcc tgcacttgtg acatttttatt    600
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11162

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gcagccagtg cctgtgccat taagcattcc ttgaaaataa aatctttttt ggctgtacga    660
tgtttcttcg tgtagacata ccaaaagtaa actcttggcc ggctgcggtg gctcatgcct    720
gtaatcctag cactttggga ggctgagacg ggtggattgc ctgagctcag gagttcggac    780
cagcctgggc aacacggtga aaccccgtct ctactaaaat acaaaaaatt agctgggcgt    840
ggtggtgtgt gcctgtagtc ccacctactc aggaggctga ggcaggagaa tcgcttgaac    900
ccgggagaca aaggttgctg tgagcctaga tcacaccatt gcactccagc ctgggcgaca    960
cggagactcc gtctccaaaa aaaaaaaaaa                                      990
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<210> 12168
<211> 1118
<212> DNA
<213> Homo sapiens

<400> 12168
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tgagaatttg catttccaac aagttcccaa gagattctga tcctgctggt cgagagtaac     60
aatttaagaa tcatcattct aggttatata cctgggagtg gaattactgt gatatatagg    120
gtatgtatat ctcaatttct aatgtaacag ggtttcagag atcctcttca cattcttgcc    180
aaaactttgg agtattattt tgccagccta atcagcttga aaagttatct cattgtttta    240
atttgcatgt ttctgatttc cagtgaggtt atgcatgtat tcttaacatt tattggcctt    300
tcaggaactt tctgtgagtt acctgttaca ttcctttgct gaatatttaa tcgtttgttt    360
tttcatattt atttataggg attattttaa aattctgcat atgaatcctt tctgttgttt    420
agcaaatatc tttgcccagt ggatgactta ccttttaact ttgttcctga tgtcttttgt    480
tgagcaaaag tctttcattt taatgttatc agattatcgg tattttattc aatggtttgt    540
gcttttgaa tcattttaag gagatccttc cctacaaatc aataagaaaa atacaaacaa    600
cacaataaaa ataaaagtgt ttataaaaac agacataaca ggcagttcac agaggcaaaa    660
acaccagtgg cctatagact taagaaatct cattagtaat caataaaatg caaaataaat    720
ctatactatg atatatacat ttagtactta gaatgctggc atatatttaa aggcctgaca    780
atgccaagta ttggtgaaca tacgaaacaa taagaactct atgtaacctc agcactttgg    840
gaggccgagg ccagcagatc acctgaggtc aggagttcga gaccagcctg gccaatgtgg    900
caaaaccccg tctctactaa aaatactaaa aattagccga gtttgatggc acacacttgt    960
aatcgcagct gctcaggagg ctgaggcatg agaatctctt gaacccagga ggtggaggtt   1020
gcagtgaccc aagatcatgc cactgcactc caacactcca gcctgggtga cagagcgaga   1080
ctctgtctca aaaaaaaaaa aaaaagaaaa agaaaaaa                            1118
```

<210> 12169
<211> 1138
<212> DNA
<213> Homo sapiens

<400> 12169
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tgagaatttg catttccaac aagttcccaa gagattctga tcctgctggt cgagagtaac     60
aatttaagaa tcatcattct aggttatata cctgggagtg gaattactgt gatatatagg    120
gtatgtatat ctcaatttct aatgtaacag ggtttcagag atcctcttca cattcttgcc    180
aaaactttgg agtattattt tgccagccta atcagcttga aaagttatct cattgtttta    240
atttgcatgt ttctgatttc cagtgaggtt atgcatgtat tcttaacatt tattggcctt    300
tcaggaactt tctgtgagtt acctgttaca ttcctttgct gaatatttaa tcgtttgttt    360
tttcatattt atttataggg attattttaa aattctgcat atgaatcctt tctgttgttt    420
agcaaatatc tttgcccagt ggatgactta ccttttaact ttgttcctga tgtcttttgt    480
tgagcaaaag tctttcattt taatgttatc agattttcgg tattttattc aatggtttgt    540
gcttttgaa tcattttaag gagatccttc cctacaaatc aataagaaaa atacaaacac    600
cacaataaaa ataaaagtgt ttataaaaac agacataaca ggcagttcac agaggcaaaa    660
acaccagtgg cttatagact taagaaatct cattagtaat caataaaatg caaaataaat    720
ctatactatg atatatacat ttagtactta gaatgctggc atatatttaa aggcctgaca    780
atgccaagta ttggtgaaca tacgaaacaa taagaactct atgtaacctc agcactttgg    840
gaggccgagg ccagcagatc acttgaggtc aggagttcga gaccagcctg gccaatgtgg    900
caaaaccccg tctctactaa aaatactaaa aattagccga gtttgatggc acacacttgt    960
aatcgcagct gctcaggagg atgaggcatg agaatctctt gaacccagga ggtggaggtt   1020
gcagtgaccc aagatcatgc ctgtgcactc caacactcca gcgtgggtga cagagcgaga   1080
ctctgtctca aaaaaaaaaa aaaaagaaaa agaaaaaaaa gaaacactat aagaattc     1138
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11163
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<210> 12170
<211> 1141
<212> DNA
<213> Homo sapiens

<400> 12170
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tgagaatttg catttccaac aagttcccaa gagattctga tcctgctggt cgagagtaac      60
aatttaagaa tcatcattct aggttatata cctgggagtg gaattactgt gatatatagg     120
gtatgtatat ctcaatttct aatgtaacag ggtttcagag atcctcttca cattcttgcc     180
aaaactttgg agtattattt tgccagccta atcagcttga aaagttatct cattgtttta     240
atttgcatgt ttctgatttc cagtgaggtt atgcatgtat tcttaacatt tattggcctt     300
tcaggaactt tctgtgagtt acctgttaca ttcctttgct gaatatttaa tcgtttgttt     360
tttcatattt atttatgggg attattttaa aattctgcat atgaatcctt tctgttgttt     420
agcaaatatc tttgcccagt ggatgactta ccttttaact ttgttcctga tgtctttttgt     480
tgagcaaaag tctttcattt taatgttatc agattatcgg tattttattc aatggtttgt     540
gcttttgaa tcattttaag gagatccttc cctacaaatc aataagaaaa atacaaacaa     600
cacaataaaa ataaaagtgt ttataaaaac agacataaca ggcagttcac agaggcaaaa     660
acaccagtgg cctatagact taagaaatct cattagtaat caataaaatg caaaataaat     720
ctatactatg atatatacat ttagtactta gaatgctggc atatatttaa aggcctgaca     780
atgccaagta ttggtgaaca tacgaaacaa taagaactct atgtaacctc agcactttgg     840
gaggccgagg ccaccagatc acctgaggtc aggagtttta gaccagcctg gccaatgtgg     900
caaaaccccg tctctactaa aaatactaaa aattagccga gtttgatggc acacacttgt     960
aatcgcagct gctcaggagg ctgaggcatg agaatctctt gaacccagga ggtggaggtt    1020
gcagtgaccc aagatcatgc cactgcactc caacactcca gcctgggtga cagagcgaga    1080
ctctgtctca aaaaaaaaa aaaagaaaa agaaaaaaa gaaaacaat aagaattcta    1140
a                                                                    1141
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<210> 12171
<211> 911
<212> DNA
<213> Homo sapiens

<400> 12171
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attctagatg agggatatta aaacagtttg tttgactgat tgaatttcta atagttcggg      60
ggtatttata ctattagttc aagggtagct ttgtttttat ttactttttg ttatgaaata     120
ttaatatacc aaaagttata tagaataata tagcaaatac ctgtgtagcc agccaacctt     180
tattaatcat tatcaattcc taatattttc catatttgct taattaaaaa aataataaag     240
cattatagat attcctgaag acttccacat attcctcacc aatcccattc tcctttatcc     300
tttccagatg taaccactat cctgaatttg ctatttataa ttcctgtgca cgttttttata     360
ttttactac atagccatat attcacaaat aacatatagt tttatatgtt ttaaaactat     420
atagatgaca tactctatca ttctacaacc ttttgactc aatatgcata atgcttttga     480
aatttatttc taaagataca aggaactata tagtattcca ttgtagaaat agaccatcat     540
ttgttatatt tatccacttt cctgaagatt tgttctttct gttattttgc tattacagtt     600
aattctgcaa caagtattat catacacctc ttgttgcaca tatgccagac ttttctagg     660
acagtgtttt tcaaacttag attacaatta gtaggttaca accaatggga ttttttttaat     720
gaaatggaat agaatagaaa atatcaaaaa gtgttcccta cagtatgtta gggtaattac     780
tgtttcttaa agcttttttt ttatatgtgt ttgtgtatat gtgacataat gtgtgtgggg     840
ccacattgaa gaatgcagtt cttcgtgtag atctcaatca aaagtgttgg gaaggtgtca     900
ttctattaca g                                                          911
```

<210> 12172
<211> 1071
<212> DNA
<213> Homo sapiens

<400> 12172
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aggctcttct agccttcctg tctcatctaa gagagaaaaa aagctgtgaa gtgcttgtga      60
```

```
aggttacagg  ctggagacac  aggcacacta  aaagattgag  acttcatcat  aggattagag    120
aatgcctccc  cttccacacc  ttgctactac  atcaacagag  cttcagtata  ataatcgtgg    180
attatagctg  aaagacctgc  aaggatcaga  ctctatttaa  ggaggttttt  ttgttgctgt    240
tttgtttttga  tttgtttttt  ttttttttttg  taaatccaaa  ggaaacaagg  gagacaaaaa    300
gacagtagaa  gaaacagaaa  cttctgacac  ctacagctac  atcaaacatt  aagcacagcc    360
caactcctgg  ccagattaac  ataaaacctc  atactaatgg  tctctttgga  ttagttccta    420
ttacttgata  gatcatgtcc  agttttcaac  aaaagaaatt  ataacgtatg  ctaaaaaaaa    480
aaaaaacaca  cattctgaag  aggcaaaaca  agcgtgagaa  ccaaattcag  gttttggaat    540
tatcagatat  ggaatttaaa  ataaccacga  ttaatatact  aagtaggcta  tgaataaaag    600
tagataacat  gcaagaccag  atggctaatc  taaacagaga  gaaactctaa  gaaagaatca    660
aaaggagttg  ctagaaatca  aaaacactgt  aacaaatgaa  gaatgccttt  gataggctca    720
tcagtaagtt  ggaaacagcc  aaggaaggaa  tcagtaaggt  tgaagacatg  gcaataaaaa    780
cttcccatgc  tgaaatacaa  aggaaaaaaa  gactgaaaaa  aaggaacaga  atatccaaga    840
actatgggac  gatttcagag  tataacatac  atgttattgg  aataccaaaa  ggagaagaga    900
aaaagaagga  gaagaaatat  ttgaagtagt  aatggatgag  aattttccaa  aattaatagc    960
agataacaaa  ctacagatct  gggaagctcc  aagaacacca  agcaggataa  ataccagaac   1020
tacacctaag  cgtatcatgt  tcaaactaca  gaaagacaaa  gaaaagattt  t              1071
```

<210> 12173
<211> 911
<212> DNA
<213> Homo sapiens

<400> 12173
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attctagatg  agggatatta  aaacagtttg  tttgactgat  tgaatttcta  atagttcggg     60
ggtatttata  ctattagttc  aagggtagct  ttgttttttat  ttactttttg  ttatgaaata    120
ttaatatacc  aaaagttata  tagaataata  tagcaaatac  ctgtgtagcc  agccaacctt    180
tattaatcat  tatcaattcc  taatatttttc  catatttgct  taattaaaaa  aataataaag    240
cattatagat  attcctgaag  acttccacat  attcctcacc  aatcccattc  tcctttatcc    300
tttccagatg  taaccactat  cctgaatttg  ctatttataa  ttcctgtgca  cgtttttata    360
tttttactac  atagccatat  attcacaaat  aacatatagt  tttatatgtt  ttaaaactat    420
atagatgaca  tactctatca  ttctacaacc  ttttgactc  aatatgcata  atgctttttga    480
aatttatttc  taaagataca  aggaactata  tagtattcca  ttgtagaaat  agaccatcat    540
ttgttatatt  tatccacttt  cctgaagatt  tgttctttct  gttattttgc  tattacagtt    600
aattctgcaa  caagtattat  catcacacctc  ttgttgcaca  tatgccagac  tttttctagg    660
acagtgtttt  tcaaacttag  attacaatta  gtaggttaca  accaatggga  tttttttaat    720
gaaatggaat  agaatagaaa  atatcaaaaa  gtgttccta  cagtatgtta  gggtaattac    780
tgtttcttaa  agcttttttt  ttatatgtgt  ttgtgtatat  gtgacataat  gtgtgtgggg    840
ccacattgaa  gaatgcagtt  cttcgtgtag  atctcaatca  aaagtgttgg  gaaggtgtca    900
ttctattaca  g                                                            911
```

<210> 12174
<211> 462
<212> DNA
<213> Homo sapiens

<400> 12174
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aggctcttct  agccttcctg  tctcatctaa  gagagaaaaa  aagctgtgaa  gtgcttgtga     60
aggttacagg  ctggagacac  aggcacacta  aaagattgag  acttcatcat  aggattagag    120
aatgcctccc  cttccacacc  ttgctactac  atcaacagag  cttcagtata  ataatcgtgg    180
attatagctg  aaagacctgc  aaggatcaga  ctctatttaa  ggaggttttt  ttgttgctgt    240
tttgttttga  tttgtttttt  ttttttttt  gtaaatccaa  aggaaacaag  ggagacaaaa    300
agacagtaga  aaaaacagaa  acttttgaca  cctacagcta  catcaaacat  taagcacagc    360
ccaactcctg  gccagattaa  cataaaacct  catactaatg  ggctctttgg  attagatcct    420
attacttgat  agatcatgtc  cagatttcaa  caaaagaaat  ta                        462
```

<210> 12175
<211> 911
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11165

<212> DNA
<213> Homo sapiens

<400> 12175
attctagatg agggatatta aaacagtttg tttgactgat tgaatttcta atagttcggg       60
ggtatttata ctattagttc aagggtagct ttgtttttat ttactttttg ttatgaaata      120
ttaatatacc aaaagttata tagaataata tagcaaatac ctgtgtagcc agccaacctt      180
tattaatcat tatcaattcc taatattttc catatttgct taattaaaaa aataataaag      240
cattatagat attcctgaag acttccacat attcctcacc aatcccattc tcctttatcc      300
tttccagatg taaccactat cctgaatttg ctatttataa ttcctgtgca cgttttttata     360
tttttactac atagccatat attcacaaat aacatatagt tttatatgtt ttaaaactat      420
atagatgaca tactctatca ttctacaacc tttttgactc aatatgcata atgcttttga      480
aatttatttc taaagataca aggaactata tagtattcca ttgtagaaat agaccatcat      540
ttgttatatt tatccacttt cctgaagatt tgttctttct gttattttgc tattacagtt      600
aattctgcaa caagtattat catacacctc ttgttgcaca tatgccagac tttttctagg      660
acagtgtttt tcaaacttag attacaatta gtaggttaca accaatggga ttttttttaat     720
gaaatggaat agaatagaaa atatcaaaaa gtgttcccta cagtatgtta gggtaattac      780
tgtttcttaa agcttttttt ttatatgtgt ttgtgtatat gtgacataat gtgtgtgggg      840
ccacattgaa gaatgcagtt cttcgtgtag atctcaatca aaagtgttgg gaaggtgtca      900
ttctattaca g                                                          911


<210> 12176
<211> 238
<212> DNA
<213> Homo sapiens

<400> 12176
acagggccag gagatcgaga ccatcctggc taagatggtg aaaccccgtc tctactaaaa       60
atacaaaaaa ttagccaggc atggtggcgg cgcctgtag tcccagctac tcgggaggct       120
gaggcaggag aatggcctga acctgggagg cagagcttgc agtgagccga gatcatgcca      180
ctgcactcca gcctgggtgg cagagcgaga ctctgtctca aaaaaaaaa aaaacaaa        238


<210> 12177
<211> 181
<212> DNA
<213> Homo sapiens

<400> 12177
aattagccgg gcgtggtggc aggcgcctgt agtcccagct acttgggagg ctgaggcagg       60
agaatggcgt gaaccaggga ggcggagctt gcagtgagct gagatcgcgc cactgcactc      120
cagcctgggc gacagggcaa gactccgtct caaaaaaaaa aaaaaaaaa aaaaaattgt      180
g                                                                     181


<210> 12178
<211> 364
<212> DNA
<213> Homo sapiens

<400> 12178
aaccaccatc aaacaggatt ttcgcctgct ggggcaaacc agcgtggacc gcttgctgca       60
actctctcag ggccaggcgg tgaagggcaa tcagctgttg cccgtctcac tggtgaaaag      120
aaaaaccacc ctggcgccca atacgcaaac cgcctctccc cgcgcgttgg ccgattcatt      180
aatgcagctg gcacgacagg tttcccgact ggaaagcggg cagtgagcgc aacgcaatta      240
atgtgagtta gctcactcat taggcacccc aggctttaca ctttatgctt ccggctcgta      300
tgttgtgtgg aattgtgagc ggataacaat ttcacacagg aaacagctat gaccatgatt      360
acgc                                                                  364

11166

<210> 12179
<211> 142
<212> DNA
<213> Homo sapiens

<400> 12179
gcgggcacct gtagtcccag ctactcggga gactgaggca ggagaatggc gtgaacctgg      60
gaggcggagc ttgcagtgag ctgagattgc gccactgcac tccagcctgg gcaacagagc     120
gaaactccgt ctccaaaaga aa                                             142


<210> 12180
<211> 247
<212> DNA
<213> Homo sapiens

<400> 12180
gaatggcaga aattcgacga cacagcgagc gaggaagcgg aagagcgccc aatacgcaaa      60
ccgcctctcc ccgcgcgttg gccgattcat taatgcagct ggcacgacag gtttcccgac     120
tggaaagcgg gcagtgagcg caacgcaatt aatgtgagtt agctcactca ttaggcaccc     180
caggctttac actttatgct tccggctcgt atgttgtgtg gaattgtgag cggataacaa     240
tttcaca                                                              247


<210> 12181
<211> 170
<212> DNA
<213> Homo sapiens

<400> 12181
tcgggcgcct gtagtcccag ctacttggga ggctgaggca ggagaatggc gtgaacccgg      60
gaggcggagc ttgcagtgag ccgagatccc gccactgcac tccagcctgg gcgacagagc     120
gagactccgt ctcacaaaat aaaaaaaaaa taaaataaaa taaaataaaa                170


<210> 12182
<211> 184
<212> DNA
<213> Homo sapiens

<400> 12182
cgtggtggcg ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga gaatggcgtg      60
aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg     120
acagagcgag agtccgtctc aaaaaaaaaa aaaaaaaga aaagaaaaaa gaacaaacaa     180
cagc                                                                 184


<210> 12183
<211> 131
<212> DNA
<213> Homo sapiens

<400> 12183
ggaggctgag gcaggagaat ggcgtgaacc caggaggcgg agcttgcagt gagctgagat      60
tgcgccactg cactccagcc tgggcaacag agcgagactc cgtctgaaaa aaaaaaaaac     120
aaaaactggt g                                                         131


<210> 12184
<211> 227
<212> DNA


11167

<213> Homo sapiens

<400> 12184
taagaccatc ctggctaaca cggtgaaacc ccgtctctac taaaaataca aaaattagcc      60
aggcgtggtg gcgggcgcct gtagtcccag ctacttggga ggctgaggca ggagaatggc     120
atgaacccgg gaggtggagc ttgcagtgag ctgagatcgc gccactgcac tccagcctgg     180
gcaacagagc gagactctgt ctcaaaaaaa aaaaaaaaaa tcaagta     227


<210> 12185
<211> 47
<212> DNA
<213> Homo sapiens

<400> 12185
gcactccaac ctgggcgaca gagcaagact ccgtctcaaa aaaaaa      47


<210> 12186
<211> 91
<212> DNA
<213> Homo sapiens

<400> 12186
cccgggaggc ggagcttgca gtgagctgag attgcaccac tacactccag cctgggcgac      60
agagtgagac tctgtctcaa aaaaaaaga a      91


<210> 12187
<211> 143
<212> DNA
<213> Homo sapiens

<400> 12187
gtagtcccag ctactgggga ggctgaggca ggagaatggc gtgaacctgg gaggcggagc      60
ttgcagtgag ccgagatcgc gccactgcac tccagcctgg gcgacagagc gagactccgt     120
ctcaaaaaaa aaaaaagaa atg     143


<210> 12188
<211> 686
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> n equals a,t,g, or c

<400> 12188
caccaaggcc agtttggaag cgaacggcta ccccgaaatt aagatactac agcgtgagtt      60
atgagaaagc gccacgcttc ccgagggaag aaagncggga cagttatccg gtagccggca     120
gggtcgaacc agaagagcgc acgaggagct tccaagggga aaacgcctgg tatctttata     180
gtcctgtcgg gtttcgccac ctctgacttg agcgtcgatt tttgtgatgc tcgtcagggg     240
ggcggagcct atggaaaaac gccagcaacg cggcctttt acggttcttg gccttttgct     300
ggccttttgc tcacatgttc tttcctgcgt tatcccctga ttctgtggat aaccgtatta     360
ccgcctttga gtgagctgat accgctcgcc gcagccgaac gaccgagcgc agcgagtcag     420
tgagcgagga agcggaagag cgcccaatac gcaaaccgcc tctccccgcg cgttggccga     480
ttcattaatg cagctggcac gacaggtttc ccgactggaa agcgggcagt gagcgcaacg     540
caattaatgt gagttagctc actcattagg caccccaggc tttacacttt atgcttccgg     600
ctcgtatgtt gtgtggaatt gtgagcggat aacaatttca cacaggaaac agctatgacc     660

11168

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atgattacga attcgagctc ggtacc
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```
<210> 12189
<211> 141
<212> DNA
<213> Homo sapiens

<400> 12189
cagctactcg ggaggctgag gcaggagaat ggcgtgaacc tgggaggcag agcttgcagt      60
gagccgagac agcgccactg cactccagcc tgggtgaaag agcgagactc cgtctcaaaa     120
aaaaaaaaaa aaaaaaatt t                                                141


<210> 12190
<211> 184
<212> DNA
<213> Homo sapiens

<400> 12190
aaatacaaaa aattagccag gcgtggtggc gggtgcctgt agtcccagct actcgggagg      60
ctgaggcagg agaatggcat gaacctggga ggcggagctt gcagtgagct gagatcgtgc     120
cactgcactc cagcctgggc aacagagcaa gaccccgtct caaaaaaaaa aaaaaaaaaa     180
ggaa                                                                  184


<210> 12191
<211> 108
<212> DNA
<213> Homo sapiens

<400> 12191
tggcgtgaac ctgggaggca gagcttgcag tgagctgaga ttgcgccact gcactccagc      60
ctgggcaaca gagtgagact ccatcttaaa aaaaaaaaa aaaatata                   108


<210> 12192
<211> 105
<212> DNA
<213> Homo sapiens

<400> 12192
ctggaacctg ggaggcagag tttgcagtga gccgagatca ggccactgca ctccagcctg      60
ggcaacagag caagactctg tctcaaaaaa aaaaaaaaaa aaaag                     105


<210> 12193
<211> 175
<212> DNA
<213> Homo sapiens

<400> 12193
cgggcgtagt ggcgggcgcc tgtagtccca gctacttggg aggctgaggc aggagaatgg      60
cgtgaacccg ggaggcggag cttgcagtga gccgagattg cgccactgca ctccagcctg     120
ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaa atcac           175


<210> 12194
<211> 189
<212> DNA
<213> Homo sapiens
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<400> 12194
caaaaaaatt agcggggcgt agtggcgggc gcctgtagtc ccagctactt gggaggctga   60
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcccgccact   120
gcactccagc ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa   180
gaaatgaca   189

<210> 12195
<211> 207
<212> DNA
<213> Homo sapiens

<400> 12195
aaccccatct ctattaaaat acaaaaatta gccgggcgtg gtggcgggcg cctgtagtcc   60
cagctacttg ggaggctgag gcaggagaat ggcgtgaacc cgggaggcgg agcttgcagt   120
gagccgagat cccgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa   180
aaaaaaaaaa aaaaaaaaaa aaaaaga   207

<210> 12196
<211> 162
<212> DNA
<213> Homo sapiens

<400> 12196
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg   60
agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa   120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaca aa   162

<210> 12197
<211> 171
<212> DNA
<213> Homo sapiens

<400> 12197
agccgggcgt ggtggcgggc gcctgtagtc ccagctactt gggaggctgg ggcaggagaa   60
tggcgtgaac ctggaggtgg agcttgcagt gagccgagat cgcgccactg cactccagcc   120
tgggcaacag agcgagactc cgtctgaaaa aaaaaaaaaa aagaaataga g   171

<210> 12198
<211> 100
<212> DNA
<213> Homo sapiens ·

<400> 12198
ctgaggcagg agaatggcgt gaacccgaga ggcggagctt gcagtgagcc gagatcgcgc   60
cactgcactc cagcctgggc gacagagcga gactcccctt   100

<210> 12199
<211> 129
<212> DNA
<213> Homo sapiens

<400> 12199
gaatggcgta accgggaggc ggagcttgca gtgagccgag atcgcgccac tgcactccag   60
cctgggcgac agagcgagac tccgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   120
aaacaaaga   129

<210> 12200
<211> 193
<212> DNA
<213> Homo sapiens

<400> 12200
aaaaattagc cgggcgtggt ggcgggcgcc tgtagtccca gctactcgag aggctgaggc   60
aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca   120
ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaga   180
tcagaaaaaa ata   193

<210> 12201
<211> 177
<212> DNA
<213> Homo sapiens

<400> 12201
cataaattag ccgggcgtag tggcgggcgc ctgtagtccc agctacttgg gaggctgagg   60
caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc cgccactgc   120
actccagcct gggcgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa atgagtc   177

<210> 12202
<211> 140
<212> DNA
<213> Homo sapiens

<400> 12202
ggctgaggca ggagaatggc gtgaacccgg gaggcggagc ttgcagtgag tcgagatcgc   60
gccactgcac tccagcctgg gcgacagagc gaaactccgt ctcaaaaaaa aaaaaaaaaa   120
aaaaaaaaaa gaggggaaaa   140

<210> 12203
<211> 114
<212> DNA
<213> Homo sapiens

<400> 12203
gaggcaggag aatggcgtga accctggagg cagagcttgc agtgagccga gatcgcgcca   60
ctgcactcca gcctgggcga cagagcaaga ttccgtctca aaaaaaaaa aacg   114

<210> 12204
<211> 114
<212> DNA
<213> Homo sapiens

<400> 12204
cagtagaatg gcatgaaccc aggaggcaga gcttgcagtg agctgaggtc acgccactgc   60
actccagcct gggcaacaga gcaagactcc gtctcaaaaa aaaaaaaaaa aaaa   114

<210> 12205
<211> 364
<212> DNA
<213> Homo sapiens

11171

<400> 12205
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aaccaccatc aaacaggatt ttcgcctgct ggggcaaacc agcgtggacc gcttgctgca      60
actctctcag ggccaggcgg tgaagggcaa tcagctgttg cccgtctcac tggtgaaaag     120
aaaaaccacc ctggcgccca atacgcaaac cgcctctccc cgcgcgttgg ccgattcatt     180
aatgcagctg gcacgacagg tttcccgact ggaaagcggg cagtgagcgc aacgcaatta     240
atgtgagtta gctcactcat taggcacccc aggctttaca ctttatgctt ccggctcgta     300
tgttgtgtgg aattgtgagc ggataacaat ttcacacagg aaacagctat gaccatgatt     360
acgc                                                                  364
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<210> 12206
<211> 153
<212> DNA
<213> Homo sapiens

<400> 12206
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gtgagccgag atcgcgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa     120
aaaaaaaaa aaaaaaaga aagcagtggg gcc                                    153
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<210> 12207
<211> 121
<212> DNA
<213> Homo sapiens

<400> 12207
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ggctgaggca ggaaaatggc atgaacccgg gaggcggagc ttgcagtgag ctgagatcgc      60
agcactgcac tccagcctgg gcaacagagc gagactccat ctcaaaaaaa aaaaaaaaa     120
a                                                                     121
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<210> 12208
<211> 166
<212> DNA
<213> Homo sapiens

<400> 12208
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ctgggcgtgg tggcgggtgc ctgtagtccc agctacttgg gaggctgagg caggagaatg      60
gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc aggccactgc actccagcct     120
gggcaacaga gtgagactcc gtctcaaaaa aaaaaaaaa aagata                     166
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<210> 12209
<211> 190
<212> DNA
<213> Homo sapiens

<400> 12209
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aatggcgtga acccgggagg cggagcttgc agtgagccga tcccgcca ctgcactcca       120
gcctgggcga cagagcgaga ctccgtctca aaaaaaaaa aaaaaaaaa aaaaaaaaa       180
aaaaaagaaa                                                            190
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<210> 12210
<211> 2364
<212> DNA
<213> Homo sapiens

<400> 12210

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atcgagacca tcctggctaa cacggtgaaa ccccgtctct actaaaaata caaaaaaaaa   120
attagccggg cgtggtagcg ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga   180
gaatggcgtg aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc   240
agcctgggcg acagagcgag actccgtctc aaaaaaaaaa aaaaaaaaaa aaaagaataa   300
agtataagag aacatgagtg aatgcctgtc atcttttttt tttttcttc aaaaacaggg   360
tctcactttg tcacccaggc tgcagtgcag tggcgcaatc atggctcact gcaacctcta   420
gcacctgggc tcaagagctc aagaggtcct accaactcag cctcccaagg agctgggact   480
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ccaaggcact gggattatag gcatgagcca ccgcgcctgg cctatcatca tttattcatt   660
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aaactcttgg gacccaatgg tgacctaagc agacaagaca catccaccta cagtgtttac   960
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atggcgtgaa cctgggaggc agagcttgca gtgagcggag atcatgccac tgcactccag  2340
cctgggcgac agagcaagac tcca                                         2364


<210> 12211
<211> 158
<212> DNA
<213> Homo sapiens

<400> 12211
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gagcttgcag tgagcagaga tcgcgccact gcactccagc ctgggcaaca gagcgagact   120
ctgtctcaga aaaaaaaga aaaagaaaa aagaaaat                             158


<210> 12212
<211> 193
<212> DNA
<213> Homo sapiens

<400> 12212
cgggcgtggt agcgggcgcc tgtagtccca gctactcggg aggctgaggc aggagaatgg    60
cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca ctccagcctg   120
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11173

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ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattgac      180
tcctaatcaa aaa                                                          193


<210> 12213
<211> 95
<212> DNA
<213> Homo sapiens

<400> 12213
ggaggcggag cttgcagtga gctgagattg cgccactgca ctccagcctg ggcagcagag       60
cgagactctg tctcaaaaaa aaaataaata aataa                                  95


<210> 12214
<211> 108
<212> DNA
<213> Homo sapiens

<400> 12214
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tccagcctgg gcgacagggc aagactctgt ctcaaaaaaa aaggtaaa                   108


<210> 12215
<211> 136
<212> DNA
<213> Homo sapiens

<400> 12215
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga ttgtgccact       60
gcactccagc ctgggcgaca gagtgagact ccgtctcaaa aaaaaaaaa aaaaaaaaaa      120
aaaaaaaaaa aaaaaa                                                      136


<210> 12216
<211> 192
<212> DNA
<213> Homo sapiens

<400> 12216
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tgaggcagga gaatggcgtg aacccgggag gcagagcttg cagtgagccg agatcccgcc      120
actgcactcc agcctgggcg acagagcgag actccgtctc aaaaaaaaaa aaaaaaaaag      180
aagtagacaa aa                                                          192


<210> 12217
<211> 150
<212> DNA
<213> Homo sapiens

<400> 12217
ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga gaatggcgtg aacccgggag       60
gcggagcttg cagtgagctg agatcgcgcc actgcactcc agcctgggcg acagagcgag      120
actctgtctc aaaaaaaaaa aagaattggc                                       150


<210> 12218
<211> 142
<212> DNA
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<213> Homo sapiens

<400> 12218
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gtgagccgag atcccgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa   120
aaaaaaaaaa aaaaaaaatg ga   142

<210> 12219
<211> 123
<212> DNA
<213> Homo sapiens

<400> 12219
aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagccgag atcccgccac   60
tgcactccag cctgggcgac agagcgagct ccgtctcaaa aaaaaaaaa aaaaatgctg   120
tta   123

<210> 12220
<211> 45
<212> DNA
<213> Homo sapiens

<400> 12220
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<210> 12221
<211> 243
<212> DNA
<213> Homo sapiens

<400> 12221
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atacataaaa ttagccgggc gtgttggcgg cgcctgtag tcccagctac tcgggaggct   120
gaggcaggag aatggcgtga acccgggagg tggagcttgc agtgagctga gattgcgcca   180
ctgcactcca gcctgggcga cagagcgaga ctctgtctca aaaaaaaaaa attaaattaa   240
att   243

<210> 12222
<211> 307
<212> DNA
<213> Homo sapiens

<400> 12222
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catgaggtca ggagatcgag accatcctgg ctaacacggt gaaaccccat ctctactaaa   120
aatacaaaaa attagccagg cgtggtggcg ggcgcctgta gtcccagcta ctcgggaggc   180
tgaggcagga gaatggcgtg aacctgggag gcggagcttg cagtgagccg agatcgcgcc   240
actgaactcc agcctgggcg acagagcgag actccgtctc aaaaagaaaa taaaaaagaa   300
aaatttc   307

<210> 12223
<211> 131
<212> DNA
<213> Homo sapiens

<400> 12223

11175

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tttttttttt gagacagagt ctcgctctgt cgcccaggct ggagtgtagt ggcgcgatct        60
tggctcactg caagctccgc ctcccgggtt cacaccattc tcctgcctca gcctcccaag       120
tagctgggac t                                                            131


<210> 12224
<211> 288
<212> DNA
<213> Homo sapiens

<400> 12224
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agcgcccgct cctttcgctt tcttcccttc ctttctcgcc acgttcgccg gctttccccg       120
tcaagctcta aatcgggggc tccctttagg gttccgattt agtgctttac ggcacctcga       180
ccccaaaaaa cttgatttgg gtgatggttc acgtagtggg ccatcgccct gatagacggt       240
ttttcgccct ttgacgttgg agtccacgtt ctttaatagt ggactctt                   288


<210> 12225
<211> 268
<212> DNA
<213> Homo sapiens

<400> 12225
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cccttgtgag cctcagggcc gcatctgtaa aatgggcata actgtcatgc ctgtctttaa       120
gaacagcctt gggggtaaat gagtggaact catggaaaga tctcagccca caaccttcca       180
cagaacaggc gcttctcaca cagtaagtag caggagtgca gaggctgcag gcatgaatcc       240
agccagactg cctgggttca agtcccag                                         268


<210> 12226
<211> 160
<212> DNA
<213> Homo sapiens

<400> 12226
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agaaacctct gcagacttaa atgtccctgt ctgacagctt tgaagagagt agtggttctc       120
ccagcatgca gctggagatt tgagaacgga cagactgcct                            160


<210> 12227
<211> 368
<212> DNA
<213> Homo sapiens

<400> 12227
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gacaaatggg atctaattaa actaaagagc ttctgcacag caaaagagtc taccatcaga       120
gtgaacaggc aacctataca atgggagaaa aattttgcaa tctactcatc tgacaaaggg       180
ctaatatcca gaatctacag tgaactcaaa caaatttaca agaaaaaaac aaacaacccc       240
atcaaaaagt gggcaaagta tatgaacaga cacttctcaa aagaagacat ttatgcagct       300
aaaagacaca tgaaaaaatg cccatcatca ctggccatca gagaaatgca aatcaaaacc       360
acaatgag                                                               368


<210> 12228
<211> 2925
<212> DNA
<213> Homo sapiens
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11176

<400> 12228

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ccgcccgtct cggcctccca aagtcctggg attacaggcg tgagccaccg cgcccggctg     180
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```

<210> 12229
<211> 288
<212> DNA
<213> Homo sapiens

<400> 12229

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attaagcgcg gcgggtgtgg tggttacgcg cagcgtgacc gctacacttg ccagcgccct      60
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```

tcaagctcta aatcggggc tccctttagg gttccgattt agtgctttac ggcacctcga   180
ccccaaaaaa cttgatttgg gtgatggttc acgtagtggg ccatcgccct gatagacggt   240
ttttcgccct ttgacgttgg agtccacgtt ctttaatagt ggactctt   288

<210> 12230
<211> 4704
<212> DNA
<213> Homo sapiens

<400> 12230
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tcctaatgct atccctcccc actccccta ccccacaaca gtccccggtg tgtgatgttc   180
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11179

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11180

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11181

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11182

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11187

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11190

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<210> 12249
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<212> DNA
<213> Homo sapiens

<400> 12249

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ttttaatgaa cgtttacatt tcatcagttt ggatttcttt gctgccagtg ttggatattt     360
gctttttaaa aaacaaacca aaaaactatc atttaatata tccacctttc tacttagact     420
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11192

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<211> 102
<212> DNA
<213> Homo sapiens

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<210> 12251
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<212> DNA
<213> Homo sapiens

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tttctgcctt cataattact tcaaaagtat aaagtacttg atctcatagt taacttttcc   180
cccaacttac tcatccttca ccctctgatt tctccctatc acctactcat taaaactttt   240
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<211> 331
<212> DNA
<213> Homo sapiens

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tttctgcctt cataattact tcaaaagtat aaagtacttg atctcatagt taacttttcc   180
cccaacttac tcatccttca ccctctgatt tctccctatc acctactcat taaaactttt   240
aacagtttcc actgtagcct ctggaatccc tattctgata ccaataactt tttttgcaat   300
ctcaacattt ttttaatgcc tctccccctg c   331

<210> 12253
<211> 88
<212> DNA
<213> Homo sapiens

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tgagactctg tcttaaaaaa aaaaaaaa   88

<210> 12254
<211> 2331
<212> DNA
<213> Homo sapiens

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caaagggaga agcctggcct ctctctactc agtcaaggtt catgacttta ggagactgca   180
atgaaccagg cataccagga aaggaaaagg ttaactgagg ttgaaaaaaa aactttatgt   240
ggcactttta aacaagcagg ttggtttggc ttgtgtgact atgatggtgc ctgattttga   300
gcagagcaat ttgtgttgtg acattttaaa atccattctg gcacttggtg atgaatgtgt   360

11193

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<211> 2330
<212> DNA
<213> Homo sapiens

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caaagggaga agcctggcct ctctctactc agtcaaggtt catgacttta ggagactgca      180
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11194

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<211> 2331
<212> DNA
<213> Homo sapiens

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caaagggaga  agcctggcct  ctctctactc  agtcaaggtt  catgacttta  ggagactgca  180
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<210> 12257
<211> 171
<212> DNA
<213> Homo sapiens

<400> 12257
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aattagggaa ggaatagtca ggggcttatc agctatgcag tagcttctag aagtcaacag  120
ctggctctgg gagggaaaag attgagaaaa acaaaagaaa taaataagag c           171


<210> 12258
<211> 171
<212> DNA
<213> Homo sapiens

<400> 12258
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aattagggaa ggaatagtca ggggcttatc agctatgcag tagcttctag aagtcaacag  120
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<210> 12259
<211> 171
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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11196

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tgaacccggg aggtggagcc tgcagtgagc cgagatcgcg ccactgcact ccagcctggg   240
cgacagagcc agactccatc tcaaaaaaaa aaaaaaaaaa aaa   283

<210> 12269
<211> 170
<212> DNA
<213> Homo sapiens

<400> 12269
tcgggcgcct gtagtcccag ctacttggga ggctgaggca ggagaatggc gtgaacccgg   60

```
gaggcggagc ttgcagtgag ccgagatccc gccactgcac tccagcctgg gcgacagagc      120
gagactccgt ctcacaaaat aaaaaaaaaa taaaataaaa taaaataaaa                  170


<210> 12270
<211> 109
<212> DNA
<213> Homo sapiens

<400> 12270
ggcgtgaacc caggaggcgg agcttgcagt gagatgagat cgcgccactg cactccagcc       60
tgggcgacag agcaagactc catctcaaaa aaaaaaaaaa aaaaaggac                   109


<210> 12271
<211> 300
<212> DNA
<213> Homo sapiens

<400> 12271
agcgcggtgg ctcacgcttg taatcccagc actttgggag gccaaggcgg gaggatcatg       60
aggtcaggag atccggacca tcctggctaa catggtgaaa ccccgtctct actaaaaata      120
caaaaaaatt agccaggcgt ggtggctggc gcctgtagtc ccagctactc gggaggctga      180
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcgcgccact      240
gcactccagc ctgggcgaca gagcaagact ccgtctcaaa aaaaaaaaa aagtgcaaac      300


<210> 12272
<211> 184
<212> DNA
<213> Homo sapiens

<400> 12272
cgtggtggcg ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga gaatggcgtg       60
aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg      120
acagagcgag agtccgtctc aaaaaaaaaa aaaaaaaaga aagaaaaaa gaacaaacaa      180
cagc                                                                    184


<210> 12273
<211> 147
<212> DNA
<213> Homo sapiens

<400> 12273
ggtcccagct actcgggagg cttaggcagg agaatggcgt gaacccagga ggtggagctt       60
gcagtgagcc gagatcgcgc cactgcactc cagcctgggc gacagagcga gactccatct      120
caaaaaaaaa aaaaaaaaa aattgtg                                           147


<210> 12274
<211> 169
<212> DNA
<213> Homo sapiens

<400> 12274
aaaattagcc aggcgtgatg gtgggtgcct gtagtcccag ctacttggga ggctgaggca       60
ggagaatggc gtgaacccag gaggtggagc ttgcagtgag ctgagatcgc gccactgcac      120
tccagcctgg gcgacagagt gagactccat ctcaaaaaaa aaaaaaaga                  169
```

11202

<210> 12275
<211> 131
<212> DNA
<213> Homo sapiens

<400> 12275
ggaggctgag gcaggagaat ggcgtgaacc caggaggcgg agcttgcagt gagctgagat   60
tgcgccactg cactccagcc tgggcaacag agcgagactc cgtctgaaaa aaaaaaaaac   120
aaaaactggt g   131

<210> 12276
<211> 227
<212> DNA
<213> Homo sapiens

<400> 12276
taagaccatc ctggctaaca cggtgaaacc ccgtctctac taaaaataca aaaattagcc   60
aggcgtggtg gcgggcgcct gtagtcccag ctacttggga ggctgaggca ggagaatggc   120
atgaacccgg gaggtggagc ttgcagtgag ctgagatcgc gccactgcac tccagcctgg   180
gcaacagagc gagactctgt ctcaaaaaaa aaaaaaaaaa tcaagta   227

<210> 12277
<211> 235
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (230)
<223> n equals a,t,g, or c

<400> 12277
agatggagcc catcctggct aacacggtga aaccccgtct ttactaaaaa tacaaaaaat   60
tagccgggcg tggtggcgga cgcctgtagt cccagctact cgggaggctg aggcaggaga   120
atggcgtgaa cccgggaggc ggagcttgca gtgagccgag atcgcgccac tgcactccag   180
cctgggcgac agagcgagac tccgtctcaa aaaaaaaaa aaaaaaaan aataa   235

<210> 12278
<211> 187
<212> DNA
<213> Homo sapiens

<400> 12278
cccatctcta ctaaaaatac aaaaaattag ccaggcgtgg tggcgggcgc ctgtagtccc   60
agctacttgg gaggctgagg caggagaatg gtgtgaaccc gggaggcgga gcttgcagtg   120
agccgagatc gcgccactgc gctccagcct gggcgacaga gcgaaactcc gtctaaaaaa   180
aaaaaaa   187

<210> 12279
<211> 143
<212> DNA
<213> Homo sapiens

<400> 12279
gtagtcccag ctactgggga ggctgaggca ggagaatggc gtgaacctgg gaggcggagc   60
ttgcagtgag ccgagatcgc gccactgcac tccagcctgg gcgacagagc gagactccgt   120
ctcaaaaaaa aaaaaagaa atg   143

11203

<210> 12280
<211> 170
<212> DNA
<213> Homo sapiens

<400> 12280
gccgggcgtg gtagcgggcg cctgtagtcc cagctactcg ggaggctgag gcaggagaat   60
ggcgtgaacc cgggaggcgg agcttgcagt gagccgagat ctcgccactg cactccagcc   120
tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa aaaaagactg   170

<210> 12281
<211> 184
<212> DNA
<213> Homo sapiens

<400> 12281
aaatacaaaa aattagccag gcgtggtggc gggtgcctgt agtcccagct actcgggagg   60
ctgaggcagg agaatggcat gaacctggga ggcggagctt gcagtgagct gagatcgtgc   120
cactgcactc cagcctgggc aacagagcaa gacccgtct caaaaaaaaa aaaaaaaaaa   180
ggaa   184

<210> 12282
<211> 125
<212> DNA
<213> Homo sapiens

<400> 12282
ctgaggcagg agaatggcgt gaacccggga ggcggagctt gcagtgagcc gagatggcgc   60
cactgcagtc cagcctgggc gatagagcga gactctgtct caaaaaaaaa aaaaaaaaaa   120
aaatt   125

<210> 12283
<211> 196
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (106)
<223> n equals a,t,g, or c

<400> 12283
tctactaaaa atacaaaaaa ttagccgggc gtagtggcgg gcgcctgtag tcccagctac   60
ttgggaggct gaggcaggag aatggcgtga acccgggagg cggacntgca gtgagccgag   120
atcccgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa aaaaaaaaa   180
aaaaaaaaaa gaaata   196

<210> 12284
<211> 183
<212> DNA
<213> Homo sapiens

<400> 12284
aatacaaaaa attagccggg tgtggtggcg ggcgcctgta gtcccagcta ctcgggaggc   60
tgaggcagga gaatggcgtg aacccgggag gtggagcttg cagtgagctg agatcgtgcc   120

11204

```
actgcactcc agcctgggcg acagagcgag actccgtctc aaaaaaaacc cacaaacaac        180
aaa                                                                      183


<210> 12285
<211> 175
<212> DNA
<213> Homo sapiens


<400> 12285
cgggcgtagt ggcgggcgcc tgtagtccca gctacttggg aggctgaggc aggagaatgg         60
cgtgaacccg ggaggcggag cttgcagtga gccgagattg cgccactgca ctccagcctg        120
ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaa atcac              175


<210> 12286
<211> 196
<212> DNA
<213> Homo sapiens


<400> 12286
tctactgaaa atacagaaaa attagccggg cgtggtagcg ggcgcctgta gtcccagcta         60
ctcgggaggc tgaggcagga gaatggcgtg aacccgggag gcggagcttg cagtgagccg        120
agatcgcgcc actgcactcc agactgggcg acagagcgag actccgtctc aaaaaaaaaa        180
aaaaaaaaaa aatgac                                                        196


<210> 12287
<211> 159
<212> DNA
<213> Homo sapiens


<400> 12287
ctgtggtccc agctactcgg gaggctgagg gaggagaatg gcgtgaaccc aggaggcaga         60
gcttgcagtg agccgagatc gcgccactgc actccagcct gggtgacaga gcgagactcc        120
gtctcaaaaa aaaaaaaaaa gaaaagaaaa agaaaaata                               159


<210> 12288
<211> 190
<212> DNA
<213> Homo sapiens


<400> 12288
ccgtctctac taaaaatacg aaaaattagc caggcgtggt ggcaggtgcc tgtggtccca         60
gctactcggg aggctgaggc aggagaatgg catgaaccca ggaggcggag cttgcagtga        120
gccgagatca tgccactgca ctccagcctg ggtgacagag tgagaccatc tcacaaaaaa        180
aaaaaaaaaa                                                               190


<210> 12289
<211> 219
<212> DNA
<213> Homo sapiens


<400> 12289
catcctggct aacacagtga aaccccgtct ctactaaaaa tacaaaaaat tagctgggcg         60
tgctggtggg tgcctgtagt cccagctact cgggaggctg aggcaggaga atggcgtgaa        120
cccaggaggc ggagcttgca gagagccgag atctcgccac tgcactccag cctgggcgac        180
agagcgagac tccgtctcaa aaaaaaaga aaaagaaa                                 219
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11205

```
<210> 12290
<211> 154
<212> DNA
<213> Homo sapiens

<400> 12290
tggtagtccc agctactcgg taggctgagg caggagaatg gcttgaaccc ggtaggcgga    60
gcttgcagtg agccgagatc acgccactgc actccagcct gggccacaga gcgagactcc   120
gtctcaaaaa aaaaaaaaaa aaagaaagaa attg                               154


<210> 12291
<211> 169
<212> DNA
<213> Homo sapiens

<400> 12291
aatacaaaaa attagccagg cgtggtcgcg ggtgcctgta gtcccagcta ctcaggaggc    60
tgaggcagga gaatggcgtg aacccgggag gcggagcttg cagtgagcag agattgcgcc   120
actgcactcc agcctgggcg acagagtgag actccgtctc aaaaaagaa                169


<210> 12292
<211> 207
<212> DNA
<213> Homo sapiens

<400> 12292
aaccccgtct ctactaaaaa tacaaaaaaa tagccgggcg tagtggcggg cgcctgtagt    60
cccagctact tgggaggctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca   120
gtgagcccag atcccgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa   180
aaaaaaaaaa aaaaaaaaaa gactgcg                                       207


<210> 12293
<211> 230
<212> DNA
<213> Homo sapiens

<400> 12293
ccatcttggt taacacggtg aaacccggtc tctactaaaa atccaaaaaa ttagccgggc    60
gtggtagcgg gcgcctgtag tcccagctac tcgggaggtt gaggcaggag aatggcgtga   120
acccgggagg cggagcttgc agtgagccga gatcgcgcca ctgcactcca gcttgggcga   180
cagagcgaga ctccgtctca aaaaaaaaaa aaaaaaaaaa aaaagaataa               230


<210> 12294
<211> 189
<212> DNA
<213> Homo sapiens

<400> 12294
caaaaaaatt agcggggcgt agtggcgggc gcctgtagtc ccagctactt gggaggctga    60
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcccgccact   120
gcactccagc ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa   180
gaaatgaca                                                          189


<210> 12295
<211> 207
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11206

```
<212> DNA
<213> Homo sapiens

<400> 12295
aaccccatct ctattaaaat acaaaaatta gccgggcgtg gtggcgggcg cctgtagtcc      60
cagctacttg ggaggctgag gcaggagaat ggcgtgaacc cgggaggcgg agcttgcagt     120
gagccgagat cccgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa     180
aaaaaaaaaa aaaaaaaaaa aaaaaga                                          207


<210> 12296
<211> 150
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> n equals a,t,g, or c

<400> 12296
ctgtagtccc agctattcgg naggctgggg caggagaatg gcgtgaaccc gggaggcgga      60
gcttgcagtg agccgagatc gcgccactgc actctagcct gggcgacaga gcgagactcc     120
gtctcaaaaa aaaaaaaaaa aaaacaactt                                       150


<210> 12297
<211> 162
<212> DNA
<213> Homo sapiens

<400> 12297
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg      60
agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa     120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaca aa                        162


<210> 12298
<211> 301
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> n equals a,t,g, or c

<400> 12298
cggtggctca cgcctgtaat cccagcactt ggggaggccg aggcgggcgg atcacgaggt      60
caggagatcg agaccatcct ggctaacacg gtgaaacncc gtctctacta aaaatataaa     120
aaattagcca ggcgtggtgg tgggcgcctg tagtcccagc tactcaggag gctgaggcag     180
gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcgtg ccactgcact     240
ccagcctggg cgacagagtg agactccgtc tcaaaaaaaa aaaaaaaaaa gttattcttc     300
g                                                                     301


<210> 12299
<211> 1092
<212> DNA
<213> Homo sapiens
```

<400> 12299
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cacaactctg ggaggaagag tatcccaacc tttgggtgaa caaactgaat ctcaaatatt      60
ttataattta tccaagctgg taagtggcag agctgggatt tgaacccagg tctgtcttgt     120
tctaaatgcc ctgctttttt tcactgcatc ttcctcttgt gccatgtggt taaagatagg     180
cttcctttca atattcagtt tagttctatt ttacaaaact tcactaagca cctaccatgt     240
gccatactct ctggtgggcc cagaggacaa agagatgtat tagacctgac ccctgacttg     300
aggaactcca tgtttaatgg aaaagtagat gactgaccac taagatccag gatttaggtt     360
tctttcttgc tacccataga aatagcaata ttgccttgtg gatccctgga ccattttcct     420
catgggaagg atatctttgg cttggattaa aactgcaaag cataggataa gaagtcagtt     480
ctcaggtcac tggttcactt agcttttttg tggctagaat tacagccaag accaggtcca     540
gccaggctgg gcacaggtgt aggggatgtc aagctgtggc accttagtga cagcaggaag     600
catggggcct tcagtgcttg gggtgaagtg agggtggttc taggcccatc actagctcac     660
atggtataat gagaataatc tagcagattt gagttcattc tctggctttg ccacttactt     720
gtgtgtgact ttgggcaagt tactcaactc taagtctcca ttttcttatc tagaaagtcg     780
cactaggccg ggtgcagtgg ctcacacctg taatcccagc actttgggag gccaaggtgg     840
gtggatcacg aggtcaggtg atcgagacta tcctggctaa catggtgaaa ccccgtctct     900
actaaaaata caaaaaatta gccaggcgtg gtggcaggtg cctgtagtcc cagctactcg     960
ggaggctgag gcaggagaat ggcgtgaacc cgggaggtgg agcttgcagt gagctgagat    1020
cgcgccactg cactccagcc taagcgacag agcgagactc cgtctcaaaa aaaaaaaaaa    1080
aaagaaagtg ac                                                        1092
```

<210> 12300
<211> 267
<212> DNA
<213> Homo sapiens

<400> 12300
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agatcacgag tcaggagatt gagaccatcc tggctaacac agtgaaaccc cgtctctact      60
aaaaatacaa aaaatcagcc gggcgtggtg gcgggcgcct gtagtcccag ctactcagga     120
ggctgaggca ggagaatggc gtgaacccgg taggcggagc ttgcagtgag ccgagattgc     180
gccactgcac tccagcctgg gcgacagagc gagactccgt ctcaaaaaaa aaaaaaaaaa     240
aaaagaaaa gaaagaaaa gaaaaac                                          267
```

<210> 12301
<211> 246
<212> DNA
<213> Homo sapiens

<400> 12301
```
gatcacgagg tcaggagatc gagaccatcc tggctaacac ggtgaaaccc catctctact      60
aaaaatacaa aaaattagct gggcgtggtg gcaggcgcct gtagtcccag ctactcagga     120
ggctgaggca ggagaatggc gtgaacctgg gaggtggagc ttgcagtgag ccgagattgc     180
gccactgcac tccagcctgg gcgacagagt gagactccgt ctcaaaaaaa aaaaacaaaa     240
aaacaa                                                               246
```

<210> 12302
<211> 193
<212> DNA
<213> Homo sapiens

<400> 12302
```
aaaaattagc cgggcgtggt ggcgggcgcc tgtagtccca gctactcgag aggctgaggc      60
aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca     120
ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaga     180
tcagaaaaaa ata                                                       193
```

<210> 12303
```

<400> 12303
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cccegtctct actaaaatac aaaaaattag ccgggcgtag tggcaggcgc ctgtagtccc      60
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg     120
agccgagatc ccgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa     180
aaaaaaaaaa aaaaaaaaaa aaggcgtcag ctttttatcg cacaaaattg cagatcaaaa     240
gtctgaaatc aaggggttca cagaaccaca ctcctccaaa tcctgtaaaa aaaattccgt     300
ttcttgcctc ttccggctcc tgatagtggt gggttttcct tacctgaggg gggcatcact     360
ccacccttttt tttttgtctt caccgggcct cctctctggg tctgggtctt ctgccactgg     420
atttagggcc cactttggta atccaggagg acctcaagat tcttcattat acctgcaaag     480
accattttttg caaatgaaat catattgcac gagttctggg aatttatacc tggacatatc     540
ttttagggggg cactattcaa tatactgcat gtagcaagag aatactagcg catgtatcat     600
ctcatccaag tcttcaagag ccttgacagt tactgttatt tctcacataa gaaaaccgta     660
gtgataaaag tgaaaagcta acatttaaaa ctcgatctgt cagccaggtg cagtggctca     720
cgcctgtaat cccagcactt ggggaggcca agacaggcag atcacgaggt caggatatcg     780
agaacatcct ggctaacaca gtgaaacccc gtctctacta aaaatacaaa aaattacctg     840
ggcgtggtgg tgggcgcctg tagtcccatc tactcgggag gctgaggcag gagaatggca     900
tgaaatgggg aggcagagct ttcagtgagc caagattgcg ccactgcact ccagcctggg     960
cgacagagcg agactccgtc tcaaaaaaaa aacaaacaa aacaaaaaaa aaacctcgat    1020
ctgtcaggat ttaagtctat tcctttagcc gctatggcat tttactacct acaaagcaga    1080
cagggccact ttctaaattg cccagcctac aggctgaatg taccagagtc ctaagccacc    1140
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tgcagaaata caggctattt cacaggtcag caggaaattc ccaattgccc tcagggctaa    1260
tcagacactc tcagccaact tctttaaaat taagttccca tttctcttag taagttctgc    1320
ttgatgcttc ataaggttca tggcaagtta aatgcattgc atattcacca ctggtaagca    1380
atgtagataa gaaattctaa agagaatatt tcatcttcat ttcaatctag caaacttata    1440
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agaaaggact aataaaggag tttttatgtg gtcactttga attagacctg tcagtgacac    1560
tctagtgaat attaactgtg tgcatttttc catccccctt caaactgctt ggcttaaaat    1620
tcaaataaag ttggttcctt gtgaaaaccc ccctcctggt ggcatgagag aattaatgta    1680
ctttcaaagg taaacaattt gctcctttct gcagttggag cagagctgtt atagatcatg    1740
ccaactcaaa gggaaaatag agtcaaggaa actgaagagt caaaagccaa ccacctggaa    1800
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cacagcacaa taaagaaaaa cctttgactt gtgggcttgt ggaaaaagaa aaatgaaaaa    1920
gcagcattca tgtgggagtc aaaacctatc ctgcacctta gggaggaata aaaaagcccg    1980
tatgttattc cttttatctc tgttggagcc aaggcgcaga ttgactcaat ggacaggaaa    2040
ctgacagtga tggagcaact gctgcttacc tgattgtttc atcatgctta tatcattcaa    2100
ctctcatgcc caccttgaa agtaggcaaa atgccctcat tttagaattg acaaaaaaat    2160
tcaagcttag aaacctaaat gattaatcaa aggtcactct gttaatttgc agtgatacag    2220
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ctgccagcat atataaacac atgctttttaa aataatgaca ggctaaatct agcaatcaag    2340
tcattatagc attccagtaa gtctgcaagt gacatgttgt tttcaccaaa gatggaccag    2400
gatatgacat tgtctccttc tattatgccc agccagcaga ctgactgtca gatgcccact    2460
gcggtgatct gtttagcaag gtcagctgct tgattgctat gaataattgg atgccattaa    2520
taatggtcag ctccaggata taggaaagtg gtcaagcgtg gtaattgtat tttgaattcc    2580
agcagattat ttcctgggaa gcaggaagac aaccactata taggatacag ttttctaag    2640
tagaatagaa ataattgctt ccctagaggt gaaggggaga agccaaggc tcccgtaata    2700
acatgtgtga ccatatctag taagaaacat ggaggtcaag gttttgcaag tgatggctaa    2760
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agcaccagtg aggttagacc aatggctaat taggaaatct aatacaattg atatccatct    2940
gaaaaggtca agcataaatc ttttgctgtt aaatgtgtat taaattctca ccacatatta    3000
agggctgtag atactgcaag ataattaggc aaaacattat tatcttaaaa aaaaagccct    3060
gtcaaaaaat gaagggtttt taaaaatctc ccaggacata ataataaag tgagaaatta    3120
aaaagagatt gaaaaaaaaa gcacgtgaaa aggaaaaact aaaagtgatt ttagaggata    3180
gactgcagta taggcaacac ataaagagca aaacatttca tagaaaaata taatagctat    3240
cagtttcaga cttttactaaa gaaactattt cttaaattgt caagcaatgt gggcagaaca    3300
aattaaagtt aaaacttatt atagcaaagg aaatatggat gggagcatgg aatcatgata    3360
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caactgcctg aaatgaaata ttcaacacaa gcctcaattc ttgccagctt ttccattatt   3420
tgaagctacc aggagttgga tcattttgac catttttttt ttaagtattc agtgtttgga   3480
tgaactctac agtgaaaaga gataaacaat catagagcta aaattataaa actctcataa   3540
gaaaacataa ggaataagtc tttgtaacct tgggttacac aatggtttcc tggatctggc   3600
accgaaagat aggtgacaaa agaaaacact taggctgggc gtggtggctc atgcttataa   3660
tcccagcact ttgggaggcc gagctgggcg gatcatgagg tcaggagacc atcctcgcca   3720
acatggtgaa accccgtctc tactaaaaat ccaaaaaatt ggccaggcgt ggtggcttac   3780
acctgtaatc ccagcacttt gggaggccga ggtgggcgga tcaagaggtc aggagatcaa   3840
gaccatcctg gctacggtga atccccgtct ctactaaaca tacaaaaaat tagcggggcc   3900
tggtggcggg cgcctgtagt cccagctact cgggaggctg aggcaggaga atggcgtgaa   3960
cccgggaggc ggagcttgca gtgagctgag a                                  3991


<210> 12304
<211> 177
<212> DNA
<213> Homo sapiens

<400> 12304
cataaattag ccgggcgtag tggcgggcgc ctgtagtccc agctacttgg gaggctgagg    60
caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc ccgccactgc   120
actccagcct gggcgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa atgagtc      177


<210> 12305
<211> 140
<212> DNA
<213> Homo sapiens

<400> 12305
ggctgaggca ggagaatggc gtgaacccgg gaggcggagc ttgcagtgag tcgagatcgc    60
gccactgcac tccagcctgg gcgacagagc gaaactccgt ctcaaaaaa aaaaaaaaaa   120
aaaaaaaaaa gaggggaaaa                                               140


<210> 12306
<211> 187
<212> DNA
<213> Homo sapiens

<400> 12306
aaaaatacaa aaaattagcc gggcgtcgtg gcgggcgcct gtggtcccag ctactcggga    60
ggctgaggca ggagaatggc gtgaacccgg gaggcggagc ttgcagtgag ccgagatcgc   120
gccactgcac tccagcctgg gcgacagagc gagactccgt ctcaaaaaa aaaaaaaaaa   180
aaaggggg                                                            187


<210> 12307
<211> 246
<212> DNA
<213> Homo sapiens

<400> 12307
atcacgaggt caggagatcg agaccatccc ggctaaaacg gtgaaacccc gtctctacta    60
aaaatacaaa aaattagccg ggcgtagtgg cgggcgcctg tagtcccagc tactcaggag   120
gctgaggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccg   180
ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaa aaaaaaaaaa   240
aatgga                                                              246


<210> 12308
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```
<211> 153
<212> DNA
<213> Homo sapiens

<400> 12308
cccagctact cggggaggctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca      60
gtgagccgag atcgcgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa     120
aaaaaaaaaa aaaaaaaga aagcagtggg gcc                                    153


<210> 12309
<211> 211
<212> DNA
<213> Homo sapiens

<400> 12309
ctggctaaca cagtgaaacc ccgtctctac taaaaataca aaaaaattag ccaggcgtgg      60
tggcgggcgc ctgtagtccc agctactcgg gaggctgagg caggagaatg gcatgaactc     120
aggaggtgga gcttgcagtg agccaagatc gcgccactgc actccagcct gggcgacaga     180
gtgagactct gtctcaaaaa aaaaaaaga a                                      211


<210> 12310
<211> 202
<212> DNA
<213> Homo sapiens

<400> 12310
tactaaaaat acaaaaaatt agccgggcgt agtggcgggc gcctgtagtc ccagctactc      60
gggaggctta ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga     120
tcccgccact gcactccagc ctgggcgaca gagcgagact ccatctcaaa aaaaaaaaa     180
aaaaaaaaaa aaaaaaaga aa                                                202


<210> 12311
<211> 203
<212> DNA
<213> Homo sapiens

<400> 12311
ccatctctac taaaaataca aaaaattagc cgggcatggt ggcgggcgcc tgtagtccca      60
gctactcggg aggctgaggc aggagaatgg cgtgaacccg ggaggcggag cttgcagtga     120
gccgagatct cgccactgca ctccagcctg gcgacagag cgagactccg tctcaaaaaa     180
aaaaaaaag aaagacatgt aaa                                               203


<210> 12312
<211> 166
<212> DNA
<213> Homo sapiens

<400> 12312
ctggcgtgg tggcgggtgc ctgtagtccc agctacttgg gaggctgagg caggagaatg      60
gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc aggccactgc actccagcct     120
gggcaacaga gtgagactcc gtctcaaaaa aaaaaaaaaa aagata                     166


<210> 12313
<211> 280
<212> DNA
<213> Homo sapiens
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<400> 12313
```
cggatcacga ggtcaggaga tcgagaccat cctggctaaa acggtgaaac cccgtctcta     60
ctaaaaatac aaaaaattag ccgggcgtag tggcgggcgc ctgtagtccc agctacttgg    120
gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc    180
ccgccactgc actccagctt gggcgacaga gcgagactcc gtctcaaaaa aaaaaaaata    240
aataaaaaaa aaaaaaaaaa aaaaaaaaag aaaagaaaaa                          280
```


<210> 12314
<211> 190
<212> DNA
<213> Homo sapiens

<400> 12314
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atcactgggc gtagtggcgg gcgcctgtag tcccagctac ttgggaggct gaggcaggag     60
aatggcgtga acccgggagg cggagcttgc agtgagccga gatcccgcca ctgcactcca    120
gcctgggcga cagagcgaga ctccgtctca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    180
aaaaaagaaa                                                           190
```


<210> 12315
<211> 2364
<212> DNA
<213> Homo sapiens

<400> 12315
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ctcactcctg taatcccagc actttgggag gccgaggcgg gcggatcacg aggtcaggag     60
atcgagacca tcctggctaa cacggtgaaa ccccgtctct actaaaaata caaaaaaaaa    120
attagccggg cgtggtagcg ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga    180
gaatggcgtg aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc    240
agcctgggcg acagagcgag actccgtctc aaaaaaaaaa aaaaaaaaaa aaaagaataa    300
agtataagag aacatgagtg aatgcctgtc atcttttttt tttttcttc aaaaacaggg    360
tctcactttg tcacccaggc tgcagtgcag tggcgcaatc atggctcact gcaacctcta    420
gcacctgggc tcaagagctc aagaggtcct accaactcag cctcccaagg agctgggact    480
acaggtgcat gccaccacac cctaaggtaa atttttgtgt tttatagag acaggtttta    540
ccatgttgcc caggctgttc tgaaactcct gggcttaagg gatcgaccca cctccatctc    600
ccaaggcact gggattatag gcatgagcca ccgcgcctgg cctatcatca tttattcatt    660
tattcatcta tgcaaaaata ttctttgagt gcctaattgc taagcaatgg gacaagcact    720
ggcaagtcac actggcaaaa tatcatcccg ccactcaagg agcttatagg tcagctgggg    780
agacaaagaa gaacatgggc ccttgtaatg agctaagtat ggtgctaggg gaaatatcca    840
taagttatgg gaacccagag gaattcattc atttattcgt ttagtaaata tttatgtgcc    900
aaactcttgg gacccaatgg tgacctaagc agacaagaca catccaccta cagtgtttac    960
agagtagtgt gggagacaga cattaatgaa atgctcttac agacctatca ttacctattg   1020
tcatatgagt tatgaaagaa aaataacagg ccgggcatga tggctcacgc ctgtaatccc   1080
agcactttgg gagaccaagg caggtggatc acttgaggtc aggagttcaa gaccagcctg   1140
gccaacatga tgaaacccca tctctactaa aaatacaaaa aaaaaaaaat tatctgggca   1200
tggtggcagg cagctgtaat cccagctact cgggaggctg aggcaggaaa ctcgcttgaa   1260
cctgggaggc agaggttgca ctgagctgag attgcaccac tgcactccag cctgggtgac   1320
agagcaagac tctgtcaaaa aaaaaaaaaa aaagaaagg aaggaaagga aggaaggaag   1380
gaaggaagga aatagagtgt aagaggggggg cctagtgtag tctaagatga ctcaggagaa   1440
gctgtttgag ctgatgcctg aagacgggtt gcatgtaagt agttgagtag gtaaaagaga   1500
ggggtactat catatcaggg attcgggaga aaaaaaaga gagagagaga ggggaagagt   1560
gctgtggacc cattgagctc cagcccagct ccaactctgt gggtcaggaa agactttcca   1620
gcatctaagc tgagtccaga aggatgagta ggagtgagcc agctgaggag gagctggggt   1680
ggaaggaaag cattccagag cagcagatag cttgtgcaaa ggcacacagg cagctgggtg   1740
tggtggctca cacctgtaat cccagcactg tgggaggcca agatgggtgg accgtttgag   1800
cccaggaatt caagaccaac ctggatgaca tagtgaaacc ctgtctctac caaaaaaaaa   1860
aaaaaaaaaa ttgaaaaaaa aaaagaagct gggcatggtg gcgtgcacct gtggtcccag   1920
ctacccagga aactgaggtg ggagggaagt cgaggctgta gtgaaccatg gtggcaccat   1980
tgcattccag cccgggtgac agagcaaggc cctgtacaaa aaaaaaaaaa aaaaaagcat   2040
```
```
                                                                     11212
```

```
ggaggcaaca gaacatagtg gattggaagg aaaaacaagt ggttcagacc aggtgcagtg    2100
gctcatgcct gtaatcccag cactttggga ggccgaggcg ggcagatcac gaggtcagga    2160
gatcaagacc atcctcgcta acacagtgaa accccgtctc tactaaaaat acaaaaaaat    2220
tagccaggcg tggtggtgcg tgcctgtagt cccagctact caagaggctg aggcaggaga    2280
atggcgtgaa cctgggaggc agagcttgca gtgagcggag atcatgccac tgcactccag    2340
cctgggcgac agagcaagac tcca                                          2364
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<210> 12316
<211> 1367
<212> DNA
<213> Homo sapiens

<400> 12316
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atgaaacccg gtctctacta aaaatccaaa aaattagccg ggtgtggtgg caggcgcctg     60
tagtcccagc tactcgggag gctgaggcag tagaatggcg tgaacccggg aggcggagct    120
tgcagtgagc ggagatcgcg ccactgcact ccagcctggg cgacagagcg agactccgtc    180
tcaaaaaaaa aaaaaaaatc tttattaaat tgacaccccc cttgaacacc tgttattatg    240
aggtacgtag gttctagacc aaagctaata gaacactgca atgttgaaaa tgttctacat    300
cttcagtata gtatctaata tgatagccac tagccacatg tggctattga gcacttgaaa    360
tggaattagt gtgactgggg aaccaaattc ttaattatat ttatttttca ttaacttaac    420
tttaaatagc ccactatggg tagtggctat cataatggac agtgcagatc tgtacaacaa    480
ggatgcaacg cagcagggtg ttagacacaa acggcccctg cccctggggg actttacatt    540
ttagtgtagg aaatcagcaa gaaggaagaa agtgattaga taaggaaaat aagagctctt    600
cagaaaataa aatagagagt tcctggagcg tggaggggca acttcagcaa aggtcaggga    660
gggcactttt tgaggaggag acatttgggc taagacctca acagatgaag cagctgggca    720
aagttttgag ggaagggctt cccagacaga gggagcagca ggtgcaaagg tcccgaggtg    780
gtggccgggt gcggtggctc acacctgtaa tcccagcact ttgggaggcc gaggcaggag    840
gatcacgagg tcaggaaatc gagaccatcc tggctaacac gatgaaaccc cgtctctact    900
aaaaatacaa aaaattagc cgggcgtggt ggcgggcacc tgtagtccca gctactcagg    960
aggctgaggc aggagaatgg cgtgaacccg ggaggcagag ttcgcagtga gacgagatcg    1020
cgccactgca ctccagcctg gcgacagagc aagattctgc ctcaaaaaaa aaaaaaaaa    1080
aaaaggtctc aaggtgggaa ccagcctgat gtgtttaaga aaatgctgtg gctgggccgg    1140
gcacggtggc tcacgcctgt aatcccagca ctttgggagg ctgaggcggg tggatcacaa    1200
ggtcaggaaa tcgagaccat cctggctaac aaggtgaaac ccgtctcta ctaaaaatac    1260
aaaaattagc cgggcgtgat ggtgggcgcc tgtaatccca gctactcggg aggctgaggc    1320
aagagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgaga               1367
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<210> 12317
<211> 261
<212> DNA
<213> Homo sapiens

<400> 12317
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ggatagtgag gtcaggagat cgagaccatc ctggctaaca cggtgaaacc ccctctctac     60
taaaaataca aaaaattagc cgggcgtggt agcgggcgcc tgtagtccca gctactcggg    120
aggctgaggc aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg    180
cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa    240
aaaaagaaa aagggataaa a                                             261
```

<210> 12318
<211> 312
<212> DNA
<213> Homo sapiens

<400> 12318
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gtcctgggcc gggcgcggtg gctcacgcct gtaatcccag cactttggga ggccgaggcg     60
ggcggatcac gaggtcagga gatcgagacg atcccggcta aaacggtgaa accccgtctc    120
tactaaaaat acaaaaaatt agccgggcgt agtggcgggc gcctgtagtc ccagctactt    180
```

11213

```
gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga    240
tcccgccact gcactccagc ctgggggaca gagcgagact ccgtctcaaa aaaaaaaaaa    300
aaaaagactg tc                                                        312


<210> 12319
<211> 158
<212> DNA
<213> Homo sapiens

<400> 12319
gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcatgaac ccaggaggcg     60
gagcttgcag tgagcagaga tcgcgccact gcactccagc ctgggcaaca gagcgagact    120
ctgtctcaga aaaaaaaaga aaaaagaaaa aagaaaat                            158


<210> 12320
<211> 237
<212> DNA
<213> Homo sapiens

<400> 12320
aggtcaggag atggagacca tcctggctaa catggtgaaa ccccgtctct actaaaaata     60
caaaaaatta gccgggcgtg gtggcaggcg cctgtagtcc cagctactcg ggaggctgag    120
gcaggagaat ggcgtgaatc caggtggagc ttgcagtgag ctgagatcgc gccactgcac    180
tccagcctgg gtgacagagt gagactccat ctcaaaaaaa aaaaaaaaaa aaaaaga      237


<210> 12321
<211> 191
<212> DNA
<213> Homo sapiens

<400> 12321
aaaaaacaaa aaattagccg ggcgtagtgg cgggcgcctg tagtcccagc tacttgggag     60
gctgaggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccg    120
ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaa aaaaaaaaaa    180
aaaaaaagtt a                                                         191


<210> 12322
<211> 193
<212> DNA
<213> Homo sapiens

<400> 12322
cgggcgtggt agcgggcgcc tgtagtccca gctactcggg aggctgaggc aggagaatgg     60
cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca ctccagcctg    120
ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattgac    180
tcctaatcaa aaa                                                       193


<210> 12323
<211> 195
<212> DNA
<213> Homo sapiens

<400> 12323
aaatacaaaa attagccggg cgtagtggtg gcgcctgta gtcccagcta ctcgggaggc     60
tgaggcagga gaatggcgtg aacccgggag gcggagcttg cagtgagccg agatcccgcc    120
actgcactcc agcctgggcg acagagcgag actccgtctc aaaaaaaaaa aaaaaaaga    180
```

11214

taattctaac aaaca   195

<210> 12324
<211> 297
<212> DNA
<213> Homo sapiens

<400> 12324
gtgcggtggc tcacgcctgt aatcccagca ctttgggagg ccaagccggg cggatcatga   60
ggtcaggaga tcgagaccat cctggctaac acggtgaaac cctgtctcta ctaaaaatac   120
aaaaaattag ccgggcgtgg tggcgggtgc ctgtagtccc agctactcgg gaggccgagg   180
caggagaatg gtgtgaaccc gggaggtgga gcttgcagtg agccgagatc gggccactgc   240
actccagcct gggcgacaga gcaagactct gtctcaaaaa aaaaaaagaa atggaaa   297

<210> 12325
<211> 182
<212> DNA
<213> Homo sapiens

<400> 12325
tactaaaaat acaaaaagtt agccgggcga agtggcgggc gcctgtagtc ccagctactc   60
gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaaa   120
tcgcgccact gcactccagc ctgggtgaca gagcgagact ccgtctcaaa aaaaaaaaaa   180
aa   182

<210> 12326
<211> 323
<212> DNA
<213> Homo sapiens

<400> 12326
aaaaaactat ttttcggccg ggggggtgg atcacgcctg taatcccagc actttgggag   60
gccgaggcgg gcagatcacg aggtcaggag atcgagacca tcctggctaa cacggtgaaa   120
ccccgtctct actaaaaaaa caaaaaatta gccgggcgtg gtagcgggag cctgtagtcc   180
cagctactcg ggaggctgag gcaggagaat ggcgtgaacc cgggaggcgg agcttgcagt   240
gagccgagat cgcgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa   300
aaaaaaaaaa aaaaaaacaa aaa   323

<210> 12327
<211> 183
<212> DNA
<213> Homo sapiens

<400> 12327
gaaaaattta gccgggcgtg gtggcgggcg catgtagtcc cggctactcg ggaggctgag   60
gcaggagaat ggcgtgaacc cgggaggcgg agcttgcagt gagccgagat ggcgccactg   120
cactccagcc tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa aaataataat   180
gaa   183

<210> 12328
<211> 136
<212> DNA
<213> Homo sapiens

<400> 12328
ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga ttgtgccact   60

11215

<210> 12329
<211> 279
<212> DNA
<213> Homo sapiens

<400> 12329
cactttggga ggccgaggcg ggcggatcac gaggtcagga gatcgagacc attctggcta   60
acacggtgaa accccgtctc tactaaaaat acaaaaaatt_agccgggcgt ggtagcgggc   120
gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg   180
gagcttgcag tgagccgaga tcgcgccact gcactccagc ctgggcgaca gagcgagact   240
ccgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaga   279

<210> 12330
<211> 243
<212> DNA
<213> Homo sapiens

<400> 12330
tcacgaggtc aggagatcga gaccatcctg gctaacacgg tgaaaccccg tctctactaa   60
aaatccaaaa aattagccgg gcgtggtggt gggcgcctgt agtcccagct actcgggagg   120
ctaaggcaga agaatggcag gaacctggga ggcggagctt gcagtgagcc gagatcacgc   180
cactgcactc cagcctgggc gacagagcga gactccgtct caaaaaaaaa aaaaaaaaaa   240
att   243

<210> 12331
<211> 202
<212> DNA
<213> Homo sapiens

<400> 12331
ctactaaaaa tacaaaaaat tagccgggcg tggtagcggg cgcctgtagt cccagctact   60
cgggaggctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagccgag   120
atcgcgccac tgcactccag cctgagtgac agagcgagac tccgtctcaa aaaaaaaaaa   180
aaaaaaaaag gttaatatgt aa   202

<210> 12332
<211> 192
<212> DNA
<213> Homo sapiens

<400> 12332
aatacaaaaa attagccggg cgtagtggcg ggcgcctgta gtcccagcta cttgggaggc   60
tgaggcagga gaatggcgtg aacccgggag gcagagcttg cagtgagccg agatcccgcc   120
actgcactcc agcctgggcg acagagcgag actccgtctc aaaaaaaaaa aaaaaaaaag   180
aagtagacaa aa   192

<210> 12333
<211> 153
<212> DNA
<213> Homo sapiens

<400> 12333
gggcgtggtg gcgggcgcct gtagtcccag ctactcggga ggctgaggca ggagaatggc   60

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gtgaacccgg gaggcggagc ttgcagtgag ctgagatcac cccactgcac tccagcctgg      120
gcgacagagt gagactctgt ctcaaaaaaa aaa                                    153


<210> 12334
<211> 300
<212> DNA
<213> Homo sapiens

<400> 12334
gctcacgcct gtaatcccag cactttggga ggccgaggcg ggcggatcac gaggtcagga       60
gatcgagacc atcctggcta acacggtgaa accccatctc tactaaaaat acaaaaaatt      120
agccgggcgt ggtagcgggc gcctgtagtc ccagctactc gggaggctga ggcaggagaa      180
tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga tcgcgccact gcactccagc      240
ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaattaa      300


<210> 12335
<211> 150
<212> DNA
<213> Homo sapiens

<400> 12335
ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga gaatggcgtg aacccgggag       60
gcggagcttg cagtgagctg agatcgcgcc actgcactcc agcctgggcg acagagcgag      120
actctgtctc aaaaaaaaaa aagaattggc                                       150


<210> 12336
<211> 322
<212> DNA
<213> Homo sapiens

<400> 12336
cggccgggcg cggtggctga cgcctgtaat cccagcactt tgggaggccg aggcgggcgg       60
atcacgaggt caggagatcg agaccatcct ggctaacacg gtgaaacccc gtctctacta      120
aaaatacaaa aaattagccg ggcgtggtag cgggcgcctg tagtcccagc tactcgggag      180
gctgaggcag gagaatggcg tgaacccggg aggcggagct tcagtgagc cgagatcgcg      240
ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaa aaaaaaaaaa      300
aaaaaaaaaa aaaaaaaaat tc                                               322


<210> 12337
<211> 142
<212> DNA
<213> Homo sapiens

<400> 12337
cccagctact caggaggctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca       60
gtgagccgag atcccgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa      120
aaaaaaaaaa aaaaaaatg ga                                                142


<210> 12338
<211> 181
<212> DNA
<213> Homo sapiens

<400> 12338
caaaagttag ccgggcgtag tggcgggcgc ctgtggtccc agctactcgg gaggctgagg       60
caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc gcgccactgc      120
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11217

```
actccagcct gggtgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa aaaaaaagat    180
t                                                                     181


<210> 12339
<211> 123
<212> DNA
<213> Homo sapiens

<400> 12339
aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagccgag atcccgccac     60
tgcactccag cctgggcgac agagcgagct ccgtctcaaa aaaaaaaaaa aaaaatgctg    120
tta                                                                   123


<210> 12340
<211> 270
<212> DNA
<213> Homo sapiens

<400> 12340
tgggaggccg aggcaggtgg atcacgaggt caggagatcg agaccatcct ggctaacacg     60
gtgaaacccc gtctctacta aaaatacaaa aaattagccg ggcgtggtgg cgggcgcctg    120
tagtcccagc tactcgggag actgaggcag gagaatggcg tgaacccggg aggcggagct    180
tgcagtgagc cgagatcgcg cccctgcact ccagcctggg cgacagagcg agactccgcc    240
tcgaaaaaac aaaaacaaaa acacaaagtc                                      270


<210> 12341
<211> 237
<212> DNA
<213> Homo sapiens

<400> 12341
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cccgggaggc ggagcttgca gtgagcggag atcgcgccac tgcactccag cctgggcgac    180
tgagcaggac tccgtctcaa aaaaaaaaaa aagaaaagaa aaaagaaag aaagaaa        237


<210> 12342
<211> 214
<212> DNA
<213> Homo sapiens

<400> 12342
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gagccgaggt cgcgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa    180
aaaaaaaaaa aaaaaaaaaa aagattacac aata                                214


<210> 12343
<211> 154
<212> DNA
<213> Homo sapiens

<400> 12343
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<210> 12344
<211> 243
<212> DNA
<213> Homo sapiens

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atacataaaa ttagccgggc gtgttggcgg gcgcctgtag tcccagctac tcgggaggct   120
gaggcaggag aatggcgtga acccgggagg tggagcttgc agtgagctga gattgcgcca   180
ctgcactcca gcctgggcga cagagcgaga ctctgtctca aaaaaaaaa attaaattaa   240
att   243

<210> 12345
<211> 307
<212> DNA
<213> Homo sapiens

<400> 12345
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aatacaaaaa attagccagg cgtggtggcg ggcgcctgta gtcccagcta ctcgggaggc   180
tgaggcagga gaatggcgtg aacctgggag gcggagcttg cagtgagccg agatcgcgcc   240
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<210> 12346
<211> 166
<212> DNA
<213> Homo sapiens

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ggaggcggag cttgcagtga gccgagatcg tgccactgca ctccagcctg ggtgacagag   120
caagactccg tctcaaaaaa aaaaacaaa aaaacatgt aggcag   166

<210> 12347
<211> 142
<212> DNA
<213> Homo sapiens

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agtgagccaa gatcgcgcca ctgcactcca gcctgggtga cagagcgaga ctccgtctca   120
aaaaaaaaaa aaaaaaaact ta   142

<210> 12348
<211> 131
<212> DNA
<213> Homo sapiens

<400> 12348
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tggctcactg caagctccgc ctcccgggtt cacaccattc tcctgcctca gcctcccaag   120
tagctgggac t   131

11219

<210> 12349
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<212> DNA
<213> Homo sapiens

<400> 12349
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gcaaagattg ctgcctgctc cttcctctgg aagcttcgtc ccagaggggc acccagcaga       180
tgccagccag agctctcctg tatgaggtgt ctgt                                    214
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<210> 12350
<211> 268
<212> DNA
<213> Homo sapiens

<400> 12350
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cccttgtgag cctcagggcc gcatctgtaa aatgggcata actgtcatgc ctgtctttaa       120
gaacagcctt gggggtaaat gagtggaact catggaaaga tctcagccca caaccttcca       180
cagaacaggc gcttctcaca cagtaagtag caggagtgca gaggctgcag gcatgaatcc       240
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<210> 12351
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<212> DNA
<213> Homo sapiens

<400> 12351
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catgcc                                                                  906
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<210> 12352
<211> 368
<212> DNA
<213> Homo sapiens

<400> 12352
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gtgaacaggc aacctataca atgggagaaa aattttgcaa tctactcatc tgacaaaggg       180
ctaatatcca gaatctacag tgaactcaaa caaatttaca agaaaaaaac aaacaacccc       240
atcaaaaagt gggcaaagta tatgaacaga cacttctcaa aagaagacat ttatgcagct       300
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11220

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aaaagacaca tgaaaaaatg cccatcatca ctggccatca gagaaatgca aatcaaaacc    360
acaatgag                                                             368


<210> 12353
<211> 278
<212> DNA
<213> Homo sapiens

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aactgaggtc ctcggggagg aacaaagcaa cttatgatca gacaaatgag tcactagtag    180
agctgaaatg agaagccaga tctcctaacc actcccacac cccatcacag tgcctcactg    240
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<210> 12354
<211> 131
<212> DNA
<213> Homo sapiens

<400> 12354
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<210> 12355
<211> 2925
<212> DNA
<213> Homo sapiens

<400> 12355
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<210> 12356
<211> 4706
<212> DNA
<213> Homo sapiens

<400> 12356
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11222

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<212> DNA
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<400> 12357
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11224

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<213> Homo sapiens

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<211> 597
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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11230

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<212> DNA
<213> Homo sapiens

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11231

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<211> 289
<212> DNA
<213> Homo sapiens

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<211> 656
<212> DNA
<213> Homo sapiens

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<210> 12371
<211> 1208
<212> DNA
<213> Homo sapiens

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11232

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ggagtcaccc agccctctat taattaaagg ggtttggtaa gattgtagga cgcaagatca    900
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gcataaattg gcaagctgat tctgaaattc acatggagat actagggatt cagcatggct   1140
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<210> 12372
<211> 1498
<212> DNA
<213> Homo sapiens

<400> 12372
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ttttccaaag cttccaattt gggggcatat taatttctgt tgtattaaaa tgacaaaagt    180
tgtagaaatc atcagtgttt gaaatcatgg agagcatttg aggtaagatt tgaaaaataa    240
ttttgtatta cagactctac attatctact actgcataag aggtgaagga aagtctgaaa    300
ttagcaagtt atgaaattaa aaaatcatcg agatttaaaa aatatttttg ggcttcatct    360
tcatatgtga agaaagtacg tgtgccactc acctgaagga atgtctgcat aagtattgca    420
gtttctttaa cccaacaagg tgtgattgca tttattcaca tggacagaat aacaaaccca    480
aaaactttat cattcgttga tgagaagtgt tagtcattta tttgaatgtc agttttaagc    540
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ctagccaatg cagttaggca agagcaagaa ggtggcgtcc acattgtaaa ggagagcaaa   1080
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aattgtattt ctgtatgcta caacgaacc atccagagat agaattaaga aaacaattgt    1260
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tatctatagg ttctgtgtaa tacctactaa aatcccagct acctttgcat aaattggcaa   1380
gctgattctg aaattcacat ggagatacta gggattcagc atggctacaa caatcttgaa   1440
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<210> 12373
<211> 738
<212> DNA
<213> Homo sapiens

<400> 12373
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11233

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tcggggtca ggggtcaggg acccacttga ggaggcagtc tgcccgttct cagatctcca          180
gctgcgtgct gggagaacca ctgctctctt caaagctgtc agacagggac atttaagtct         240
gcagaggtta ctgctgtctt tttgtttgtc tgtgtcctgc ccccagaggt ggagcctaca         300
gaggcaggca ggcctccttg agctgtggtg ggctccaccc agttggagct tcctggctgc         360
tttgtttacc taagcaagcc tgggcaatgg cgggcgcccc tcccccagcc ttgctgccgc         420
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gactaggaaa gggaactccc tgacccttgc tcttcccgag tgaggcaatg cctcgccctg         660
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<210> 12374
<211> 1155
<212> DNA
<213> Homo sapiens

<400> 12374
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tctacttttg gtctttgatg atggtgatgt acagattagt ttttggtgtg gatgtccttt         180
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ctggaggtcc actccaaacc ctgtttgtct gggtattagc agcagtgggt gcagaatagc         300
ggattttcgt gaatcgcgaa tgctgctgtc tgatcgttcc tctggaagtt ttgtctcaga         360
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gctgctcggg ggtcaggggt cagggaccca cttgaggagg cagtctgccc gttctcagat         480
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<210> 12375
<211> 628
<212> DNA
<213> Homo sapiens

<400> 12375
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ccagggcctc acgccccact gcctctccgg gatgcctgcg tgtggctcac tcccaccacg         120
ggcacatcag ccctggtgcc cagctggcct tctgcagagc ctggtgctgg agcagcttct         180
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gcacctcctt gggcccgtgt tgaggcccca cggggctggg ctcatgtggg agctgatctt         300
ggccgggtga tccctcactg ctctggacaa aagggagcca tgggccgggc atggtggctc         360
acgcctgtaa tcccagcact ttgggaggcc aaggtgggcg gatcacctga ggtcggagtt         420
tgagaccagc ctggctaatg tggtgaaacc ccgtctctat aaaaataca aaaattagcc          480
gggtgttgtg gtgggtgcct gtagtcccag ctactcggga ggctgagaca ggagaatggc         540
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gaggaagact ctgtctccaa aaaaaaaa                                           628
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11234

<210> 12376
<211> 816
<212> DNA
<213> Homo sapiens

<400> 12376
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gggtgctgtg tgtctgtggg tgccggtgat gaaataaatg taaggcatca gagcatttta     180
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gactcccacc agggcctcac gccccactgc ctctccggga tgcctgcgtg tggctcactc     300
ccgccacggg cacatcagcc ctggtgccca gctggccttc tgcagagcct ggtgctggag     360
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ggtggctcac gcctgtaatc ccagcacttt gggaggccaa ggtgggcgga tcacctgagg     600
tcggagtttg agaccagcct ggctaatgtg gtgaaacccc gtctctatta aaaatacaaa     660
aattagccgg gtgttgtggt gggtgcctgt agtcccagct actcgggagg ctgagacagg     720
agaatggcgt gaacccggga ggtggaggtt gcagtgagcc aagattgtcc catccagcct     780
gggtgacgga ggaagactct gtctccaaaa aaaaaa                              816
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<210> 12377
<211> 677
<212> DNA
<213> Homo sapiens

<400> 12377
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aataatgctg gaggagggcc gtgggtccag gcatggtggg ggctgcctcc tggttgttga     180
tgagcagaaa ttcaggccgg tttgacggca ggcacgtgag ggaggttgct gtgtgtcagt     240
ggccctgtgt ccctggcact gtgtccgaac ctgacagccg ccgctgtgtc actgggcacc     300
tgccctgcgc accctcccct gtgacgggca ctctcacagc tttcctggcg aggctgaggg     360
aaaaacatgg caaacaactc gcacatgact ttgcgttttt ggccttgtca tataataaaa     420
gtaatttgtg ggcctaaaat aaatcagggc tggggatcag atgcctccaa tctggccttt     480
aattgcaggc gtgacatggc ttgcctcggc gagtctgctc ctaattaaag tgggctggcg     540
gtgtatgaag ttcgcacgga tcctcagggt gctgacccag ccccggttcc ggagggccag     600
tgtgacgaca cctcgtggcc caggagagca gggcgggcca cccatggcca ccgtgccagg     660
aatggggtct tctggct                                                   677
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<210> 12378
<211> 425
<212> DNA
<213> Homo sapiens

<400> 12378
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ataatcccgc caggcggtgt ttggatgagg agtttattca ggctgtgggg gtctgtgcgt     180
gcccgcgggt ccctcccact gcagccggcg aggctggccc tgacccagag tcgcccgccc     240
acccagtcta cgtaggcatt agaggtttgg gttctgagct cagggcctgg tttccatggc     300
aaatttctct cccttcggcg aggctgctgc cggcggggtt cagctcccca gaagggagat     360
ggcagcaaat ctgcgggagg agagtcttcg ttatctttgc ttaaaaattg ggcagcgcat     420
ggctt                                                                425
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<210> 12379
<211> 425
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<212> DNA
<213> Homo sapiens

<400> 12379
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tttaagaaac tgttagttct gtttgaaatg tcatcactgg gcgtgaattc ccatcttcag     120
ataatcccgc caggcggtgt ttggatgagg agtttattca ggctgtgggg gtctgtgcgt     180
gcccgcgggt ccctcccact gcagccggcg aggctggccc tgacccagag tcgcccgccc     240
acccagtcta cgtaggcatt agaggtttgg gttctgagct cagggcctgg tttccatggc     300
aaatttctct cccttcggcg aggctgctgc cggcgggggtt cagctcccca gaagggagat     360
ggcagcaaat ctgcgggagg agagtcttcg ttatctttgc ttaaaaattg ggcagcgcat     420
ggctt                                                                 425


<210> 12380
<211> 677
<212> DNA
<213> Homo sapiens

<400> 12380
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tttttaaacc atcctgtgcc ttttaacaga ataaacggca aggggtcccc actgaggtcg     120
aataatgctg gaggaggggcc gtgggtccag gcatggtggg ggctgcctcc tggttgttga     180
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tgccctgcgc acccctcccct gtgacgggca ctctcacagc tttcctggcg aggctgaggg     360
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gtaatttgtg ggcctaaaat aaatcagggc tggggatcag atgcctccaa tctggccttt     480
aattgcaggc gtgacatggc ttgcctcggc gagtctgctc ctaattaaag tgggctggcg     540
gtgtatgaag ttcgcatgga tcctcagggt gctgacccag ccccggttcc ggagggccag     600
tgtgacgaca cctcgtggcc caggagagca gggcgggcca cccatggcca ccgtgccagg     660
aatggggtct tctggct                                                    677


<210> 12381
<211> 1014
<212> DNA
<213> Homo sapiens

<400> 12381
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ccacacttcg aggactggct actttcacta caaaaaaatg gagtcaccct aagctttttg     120
taagaagcat gtattgaatt tgtaatcatt gtaaagggtt taaaaaatgg catttctcaa     180
aggatggcta ccatttttgct ggagccaaag aagtatccat tcttatttat gatttctggg     240
gcctccctga cccaactact tgttcaagac ttttattttg acttagaatg atgtaaaaat     300
gacttctgtt ttggtgaagg aggctgaaag tgaacggaaa tgtttgtaga gggaaataaa     360
gtataatgtg ccatttcaca gatcattgaa ttagaacaga agactcccct ttttaaaatg     420
tttgctgctg caactgtgtg gtacaatgaa ggaaaattca cgcttgcaga tgctttgttc     480
aagggcattt gtagtttcca tgtgtgttca actgacttct aaaggccttt caaacatatg     540
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aaaattgcca ccataaacaa agctaaaaga ctaggggaaa atatttgctg catatgtagt     660
caacaggatt accatctata atatataaag aggtcctata aattgaaaat ttggccaggt     720
gtggttgttc atacctgtaa tcccagcact ttgggaggcc aaggcaggag aatcactcga     780
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ggaccacttg agtctgggag gtcaaggctg cagggaacta tggtcacacc actgcactcc     960
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<210> 12382
<211> 1014

<212> DNA
<213> Homo sapiens

<400> 12382
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ccacacttcg aggactggct actttcacta caaaaaaatg gagtcaccct aagctttttg     120
taagaagcat gtattgaatt tgtaatcatt gtaaagggtt taaaaaatgg catttctcaa     180
aggatggcta ccattttgct ggagccaaag aagtatccat tcttatttat gatttctggg     240
gcctccctga cccaactact tgttcaagac tttttattttg acttagaatg atgtaaaaat     300
gacttctgtt ttggtgaagg aggctgaaag tgaacggaaa tgtttgtaga gggaaataaa     360
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aagggcattt gtagtttcca tgtgtgttca actgacttct aaaggccttt caaacatatg     540
atcttgcctc cacttcctgt gaaattaacc tcctttcttt aaaaatacaa tgatttaaag     600
aaaattgcca ccataaacaa agctaaaaga ctaggggaaa atatttgctg catatgtagt     660
caacaggatt accatctata atatataaag aggtcctata aattgaaaat ttggccaggt     720
gtggttgttc atacctgtaa tcccagcact ttgggaggcc aaggcaggag aatcactcga     780
gctgaggagt ttgagaccag ccctggcaac acagggagac cccatctcta caaaaattaa     840
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ggaccacttg agtctgggag gtcaaggctg cagggaacta tggtcacacc actgcactcc     960
agcctaggtg acagagcaaa accctatctc aaaaaaaaaa aaaaaaaaa aaaa          1014


<210> 12383
<211> 105
<212> DNA
<213> Homo sapiens

<400> 12383
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caccattgca ctccagcctg ggcaacaaga gtgaaactct gtctc                     105


<210> 12384
<211> 279
<212> DNA
<213> Homo sapiens

<400> 12384
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caagaaaata ggacatttgc ccatctgata gcaaaaattt aagagtgatt atatccagtt     120
ttcaatataa aatgataatc caatttaata aaatatacca tagaaatgat aagcacaaac     180
aacttatgac ccagccaatc cacttccaga attttattct ggaatacaca tgaggccagg     240
tgcagtggtt catgcctgta atcccaacac tttgggaga                           279


<210> 12385
<211> 279
<212> DNA
<213> Homo sapiens

<400> 12385
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caagaaaata ggacatttgc ccatctgata gcaaaaattt aagagtgatt atatccagtt     120
ttcaatataa aatgataatc caatttaata aaatatacca tagaaatgat aagcacaaac     180
aacttatgac ccagccaatc cacttccaga attttattct ggaatacaca tgaggccagg     240
tgcagtggtt catgcctgta atcccaacac tttgggaga                           279


<210> 12386
<211> 418

<212> DNA
<213> Homo sapiens

<400> 12386
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tgattgaggt gaacctcacg aatgtctttg aaaacctgac tctaaccaaa aagtatgagg       120
gagggagagt tctggctgct gtagacgaca ctacctcatg aaagtgactt agaaatcagc       180
ctggagtccc tagagcaggt ctaacaatga gggaggcaag attaaaatgg agaaagaagc       240
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tatgtgtgtg tgcttgtatt cgtttatctg gggagagaat gaataacttt ccatcagatt       360
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<210> 12387
<211> 13371
<212> DNA
<213> Homo sapiens

<400> 12387
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caggacaatg atagatacca tccaaagcca gtgttgcata tggtttcatc agaacaacat       180
tcagcagacc tcaacagaaa ctatagtaaa tcaacagaac ttccagggaa aaatgaatca       240
acaattgaac agatagataa aaaattggaa cgaaatttaa gttttgagat taagaaggtc       300
cctctccaag agggaccaaa aagttttgat gggaacacac ttttgaatag gggacatgca       360
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agttcagatc taaatgtcgg tgatacttcc cagaattctt gtgtggactg cagtgtaaca       480
caatcaaaca aagtttcagt tactccacca gaagaatccc agaattcaga cacacctcca       540
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ggtgctgaaa aaggtaataa tatagtgtca aatacttaaa tgtctttcct atgtgctagt      1020
cactgtttta agcactttag ctgtattgat ttattatgtt ttattccaca ctctaccata      1080
gaacctacag caaaatctgt cttagatact aatttttaa tataagcttt taatgtattg      1140
ttaacaattt ggtcacatta tattactggg ttttgtgttt ctaaattatt ttagtagtta      1200
taactggata acttatttc ttttcttct gtattataga tcttagtgtt tttgtatcgg      1260
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agtggcaaaa atactgtaga atgtcttgat tggccatata atgttactcg ttttcctaa      1380
atgtttagtc attttttact gttcctttaa ctacagatta catttttttg tttgtttgtt      1440
tttactgtct tcacaaatgc ttccaaatat ggctgcttcc aaccctgagt ttaacccagg      1500
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11243

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agggatcact tgagctcagg aagttgaggt tacagtgaac tgtgatcatc ccactaaact   960
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tatataacat aatttaaaaa aattttaatg gcaaacagtt gtatctaata aagattctga    660
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agcagggcat ggtggcgggc gcctgtagtc ccagctactc aggaggctga ggcaggagaa    180
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11318

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ctcatattct attatttgaa ttacaagtta acatttttag atggtacttc tacaaaaata   180
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cttgtagaaa atgtgctatg gaaacgaaat tattcaccac agttctgttc atatgtaata   300
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11336

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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<223> n equals a,t,g, or c

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11337

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<223>  n equals a,t,g, or c

<220>
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11338

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<211> 397
<212> DNA
<213> Homo sapiens
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<211> 2639
<212> DNA
<213> Homo sapiens
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<211> 3288
<212> DNA
<213> Homo sapiens

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11340

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<211> 868
<212> DNA
<213> Homo sapiens

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11358

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cccggccgcg cgtcccccaa gagcgagcac tgtggccctg gccaccacc tgtgcacaag     7440
gggcctcccg ggaccaggct gtgcccccga tcctacaccc tgagcctcag agcactgcta    7500
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<211> 181
<212> DNA
<213> Homo sapiens
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cagcctgggc gacagggcaa gactccgtct caaaaaaaaa aaaaaaaaa aaaaattgt     180
g                                                                     181
```

```
<210> 12438
<211> 129
<212> DNA
<213> Homo sapiens
```

```
<400> 12438
caagctactc aggaggctga ggcaggagaa tggcatgaac ccgggaggtg gagcttgcag    60
tgagctgaga tcgcgccact gcactccagc ctgggtgaca cagtgagact ccgtctcaaa   120
aaaaagaga                                                             129
```

```
<210> 12439
<211> 170
<212> DNA
<213> Homo sapiens
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```
<400> 12439
tcgggcgcct gtagtcccag ctacttggga ggctgaggca ggagaatggc gtgaacccgg    60
gaggcggagc ttgcagtgag ccgagatccc gccactgcac tccagcctgg gcgacagagc   120
gagactccgt ctcacaaat aaaaaaaaaa taaaataaaa taaaataaaa                170
```

```
<210> 12440
<211> 109
<212> DNA
<213> Homo sapiens
```

```
<400> 12440
ggcgtgaacc caggaggcgg agcttgcagt gagatgagat cgcgccactg cactccagcc    60
tgggcgacag agcaagactc catctcaaaa aaaaaaaaaa aaaaaggac               109
```

```
<210> 12441
<211> 184
<212> DNA
<213> Homo sapiens
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<400> 12441
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aacctgggag gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg   120
acagagcgag agtccgtctc aaaaaaaaaa aaaaaaaga aaagaaaaaa gaacaaacaa   180
cagc   184

<210> 12442
<211> 147
<212> DNA
<213> Homo sapiens

<400> 12442
ggtcccagct actcgggagg cttaggcagg agaatggcgt gaacccagga ggtggagctt   60
gcagtgagcc gagatcgcgc cactgcactc cagcctgggc gacagagcga gactccatct   120
caaaaaaaaa aaaaaaaaaa aattgtg   147

<210> 12443
<211> 169
<212> DNA
<213> Homo sapiens

<400> 12443
aaaattagcc aggcgtgatg gtgggtgcct gtagtcccag ctacttggga ggctgaggca   60
ggagaatggc gtgaacccag gaggtggagc ttgcagtgag ctgagatcgc gccactgcac   120
tccagcctgg gcgacagagt gagactccat ctcaaaaaaa aaaaaaaga   169

<210> 12444
<211> 131
<212> DNA
<213> Homo sapiens

<400> 12444
ggaggctgag gcaggagaat ggcgtgaacc caggaggcgg agcttgcagt gagctgagat   60
tgcgccactg cactccagcc tgggcaacag agcgagactc cgtctgaaaa aaaaaaaaac   120
aaaaactggt g   131

<210> 12445
<211> 143
<212> DNA
<213> Homo sapiens

<400> 12445
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ttgcagtgag ccgagatcgc gccactgcac tccagcctgg gcgacagagc gagactccgt   120
ctcaaaaaaa aaaaaaagaa atg   143

<210> 12446
<211> 170
<212> DNA
<213> Homo sapiens

<400> 12446
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ggcgtgaacc cggaggcgg agcttgcagt gagccgagat ctcgccactg cactccagcc   120
tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa aaaaagactg   170

11360

<210> 12447
<211> 171
<212> DNA
<213> Homo sapiens

<400> 12447
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caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc ccgccactgc   120
actccagcct gggtgacaga gcgagactcc atctcaaaaa aaaaaaaaaa a   171

<210> 12448
<211> 141
<212> DNA
<213> Homo sapiens

<400> 12448
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gagccgagac agcgccactg cactccagcc tgggtgaaag agcgagactc cgtctcaaaa   120
aaaaaaaaaa aaaaaaaatt t   141

<210> 12449
<211> 125
<212> DNA
<213> Homo sapiens

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cactgcagtc cagcctgggc gatagagcga gactctgtct caaaaaaaaa aaaaaaaaaa   120
aaatt   125

<210> 12450
<211> 175
<212> DNA
<213> Homo sapiens

<400> 12450
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cgtgaacccg ggaggcggag cttgcagtga gccgagattg cgccactgca ctccagcctg   120
ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa atcac   175

<210> 12451
<211> 154
<212> DNA
<213> Homo sapiens

<400> 12451
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gtctcaaaaa aaaaaaaaaa aaagaaagaa attg   154

<210> 12452
<211> 176
<212> DNA
<213> Homo sapiens

11361

<400> 12452
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cgtgaaccca ggaggcggag cttgcagtga gctgagatcg tgccactaca ctccagcctg   120
ggcaacagag cgaaactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa agtcca   176

<210> 12453
<211> 150
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> n equals a,t,g, or c

<400> 12453
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gcttgcagtg agccgagatc cgccactgc actctagcct gggcgacaga gcgagactcc   120
gtctcaaaaa aaaaaaaaaa aaaacaactt   150

<210> 12454
<211> 162
<212> DNA
<213> Homo sapiens

<400> 12454
agctacttgg gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg   60
agccgagatc cgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa   120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaca aa   162

<210> 12455
<211> 129
<212> DNA
<213> Homo sapiens

<400> 12455
gaatggcgta accgggaggc ggagcttgca gtgagccgag atcgcgccac tgcactccag   60
cctgggcgac agagcgagac tccgtctcaa aaaaaaaaa aaaaaaaaaa aaaaaaaaa   120
aaacaaaga   129

<210> 12456
<211> 193
<212> DNA
<213> Homo sapiens

<400> 12456
aaaaattagc cgggcgtggt ggcgggcgcc tgtagtccca gctactcgag aggctgaggc   60
aggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca   120
ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaga   180
tcagaaaaaa ata   193

<210> 12457
<211> 177
<212> DNA
<213> Homo sapiens

11362

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<400> 12457
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actccagcct gggcgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa atgagtc           177


<210> 12458
<211> 140
<212> DNA
<213> Homo sapiens

<400> 12458
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gccactgcac tccagcctgg gcgacagagc gaaactccgt ctcaaaaaaa aaaaaaaaaa         120
aaaaaaaaaa gaggggaaaa                                                    140


<210> 12459
<211> 2922
<212> DNA
<213> Homo sapiens

<400> 12459
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attctgtctc aaaaaaaaaa aaaaaaaga tgaaaccaag tatacaagcc cagaagccca         180
gggctaatgg gactggagtg taaaaggaag aattactata aaatggtgct aggggccagg         240
cacggtggct cacgcctgta atcccagcac tttgggaggc cgaggcgggc ggatcacgag         300
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<210> 12460
<211> 39
<212> DNA
<213> Homo sapiens

<400> 12460
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<210> 12461
<211> 153
<212> DNA
<213> Homo sapiens

<400> 12461
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gtgagccgag atcgcgccac tgcactccag cctgggcgac agagcgagac tccgtctcaa      120
aaaaaaaaa aaaaaaaga aagcagtggg gcc                                      153


<210> 12462
<211> 121
<212> DNA
<213> Homo sapiens

<400> 12462
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agcactgcac tccagcctgg gcaacagagc gagactccat ctcaaaaaa aaaaaaaaa       120
a                                                                        121


<210> 12463
<211> 2910
<212> DNA
<213> Homo sapiens

<400> 12463
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aaaaaaaaa aaaaaagat gaaaccaagt atacaagccc agaagcccag ggctaatggg      180
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<210> 12464
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<400> 12464
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<210> 12465
<211> 193
<212> DNA
<213> Homo sapiens

<400> 12465
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11365

<210> 12466
<211> 183
<212> DNA
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cactccagcc tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa aaataataat   180
gaa   183

<210> 12467
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<212> DNA
<213> Homo sapiens

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<210> 12468
<211> 153
<212> DNA
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gcgacagagt gagactctgt ctcaaaaaaa aaa   153

<210> 12469
<211> 150
<212> DNA
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gcggagcttg cagtgagctg agatcgcgcc actgcactcc agcctgggcg acagagcgag   120
actctgtctc aaaaaaaaaa aagaattggc   150

<210> 12470
<211> 142
<212> DNA
<213> Homo sapiens

<400> 12470
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<210> 12471
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<212> DNA

11366

<213> Homo sapiens

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<210> 12474
<211> 177
<212> DNA
<213> Homo sapiens

<400> 12474
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<212> DNA
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<210> 12476
<211> 166
<212> DNA
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11367

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<212> DNA
<213> Homo sapiens

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aaaaaaaaaa aaaaaaaact ta   142

<210> 12478
<211> 131
<212> DNA
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tagctgggac t   131

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<212> DNA
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<212> DNA
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11368

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<212> DNA
<213> Homo sapiens

<400> 12481
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gatgccatcg tgtttctgga tcataatgtt cctgaaatgc aggaagaaaa tattcagtaa     360
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<210> 12482
<211> 368
<212> DNA
<213> Homo sapiens

<400> 12482

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<212> DNA
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<211> 87
<212> DNA
<213> Homo sapiens

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<211> 127
<212> DNA
<213> Homo sapiens

<400> 12485
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<212> DNA
<213> Homo sapiens

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<210> 12487
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<212> DNA
<213> Homo sapiens

<400> 12487
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<210> 12488
<211> 87
<212> DNA
<213> Homo sapiens

<400> 12488
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<210> 12489
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11376

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11377

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<212> DNA
<213> Homo sapiens

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cgagtagctg ggatta                                                      136
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<210> 12495
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<212> DNA
<213> Homo sapiens

<400> 12495
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ccgcgacccc acactatttc tgtgctgtcc acactctctt gcctcccgac ccccgcactc      180
ccttctagca cccccaaagg aaaagccaga ggaacaatcg cctcctggtg gtggtacgag      240
gtagcgcacc gtccggctcg ggtccggaca gccagtaacc tcgcagagag tgacggtgtc      300
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cgcgggctgg gccttccacg catcccccc accccccatg gaacagaaag ccatgttttt      420
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<211> 46
<212> DNA
<213> Homo sapiens

<400> 12496
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<212> DNA

<213> Homo sapiens

<400> 12497
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tccttgcatc ccagcctcgt ctatgcagca agagaccagg gacttcacca aagtcaccct     360
cgcgggctgg gccttccacg catccccccc accccccatg gaacagaaag ccatgttttt     420
aagcagaacc agcgaaaccc aagcccctcc ttcctctggt gttttacaac tataaaggag     480
gtgaaggggg aagaaa                                                      496
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<210> 12498
<211> 165
<212> DNA
<213> Homo sapiens

<400> 12498
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ggggggggttg gtttaacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaa                      165
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<210> 12499
<211> 143
<212> DNA
<213> Homo sapiens

<400> 12499
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aaaaaaaaaa aacaaaaaag gag                                             143
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<210> 12500
<211> 151
<212> DNA
<213> Homo sapiens

<400> 12500
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aaaaacaaa aaaaaaaaaa aaaaaaaaaa taaataaaaa aaaaagagaa aaaaataaaa     120
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<212> DNA
<213> Homo sapiens

<400> 12501
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aaaaaaaaca aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaacaaaa     180
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<212> DNA
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<223> n equals a,t,g, or c

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aaaaa   125

<210> 12503
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<212> DNA
<213> Homo sapiens

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<220>
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<221> SITE

11380

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aaaaaa                                                                  126


<210> 12504
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<212> DNA
<213> Homo sapiens

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cactcattag gcaccccagg ctttacactt tatgcttccg gctcgtatgt tgtgtggaat   180
tgtgaacgga taaca   195

<210> 12505
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<212> DNA
<213> Homo sapiens

<400> 12505
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ataaaaaaaa aaaaaaa   77

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<211> 152
<212> DNA
<213> Homo sapiens

<400> 12506
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ataaaaaaaa aaaaaaaaaa aaaattaaag ag   152

<210> 12507
<211> 165
<212> DNA
<213> Homo sapiens

<400> 12507
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaa   165

<210> 12508
<211> 143
<212> DNA
<213> Homo sapiens

<400> 12508
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aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aagagaaaca aaaaaaaaaa aatagaaaaa   120
aaaaaaaaaa aacaaaaaag gag   143

<210> 12509
<211> 151
<212> DNA
<213> Homo sapiens

<400> 12509
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11382

<210> 12510
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<212> DNA
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<222> (117)
<223> n equals a,t,g, or c

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aaaaa   125

<210> 12511
<211> 126
<212> DNA
<213> Homo sapiens

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<222> (10)
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<210> 12512
<211> 195
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (32)
<223> n equals a,t,g, or c

<220>
<221> SITE
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tgtgaacgga taaca   195

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaa   165

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aaaaaaaaaa aacaaaaaag gag   143

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<211> 151
<212> DNA
<213> Homo sapiens

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11388

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<212> DNA
<213> Homo sapiens


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caagagcgaa actccatct                                                    139



<210> 12522
<211> 2112
<212> DNA
<213> Homo sapiens


<400> 12522
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gtatgtattt aagttatgaa tattgcagat atgtaaatat gtgtatatgt gtgttgattt      180
taatttgtat cttcacagat tttattatca gttatgtttt gaatttttac ctttggagaa      240
aacatactac ttaaatcttc cagtgtagtg atagcaaatt atctttatat aaattttatt      300
cagattattc aaagtaatca aagattttta attattttta ttaaattaaa tttatcagta      360
taaataatta agatcattaa ccttatttaa ttaaatttat taattttgat tatagaaaaa      420
tgcattttct tcttaaatag attctttaca cttaaagctg aagtgttatt ttgctacttg      480
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caattattgc ctgtatattt tttcatgtgt aggaaaatga agaagattat gggacctgtt      600
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11389

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<212> DNA
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taatttgtat cttcacagat tttattatca gttatgtttt gaatttttac ctttggagaa     240
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<210> 12524
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<212> DNA
<213> Homo sapiens

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11392

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11393

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11394

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11396

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11397

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11398

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11400

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<211> 5977
<212> DNA
<213> Homo sapiens

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acaggtttcc aaagtgtttg tgccacttta catacctgcc attattgaaa aagagttctg   3060
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11401

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<210> 12540
<211> 327
<212> DNA
<213> Homo sapiens
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tgtctcacat ctttcacagc cagctcaatg acatcacaca cagcacccaa ggtcttcgaa      180
cttgtattca aaatcataca ccattaattc aaattaactt attaagtcag ctgggaaaaa      240
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actgaaaata agacacacta ctgcaaa                                          327
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<210> 12541
<211> 208
<212> DNA
<213> Homo sapiens
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acagaaaaat ggatgaacaa attgcatttg tttatcttaa gatactattc aacaatttaa      180
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<211> 4702
<212> DNA
<213> Homo sapiens
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ctactcggga ggctgaggca ggagaatggt gtgaaccccg gaggcggagc ttgcaatgag      240
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atgttaactt tctcaggatc aaaggattca gaaggctatt ttgctctcat tttatcctta      480
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11403

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<210> 12543
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<212> DNA
<213> Homo sapiens

<400> 12543

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<210> 12544
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<212> DNA
<213> Homo sapiens

<400> 12544

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<210> 12545
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<212> DNA
<213> Homo sapiens

<400> 12545

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ggtggagctt gcagtgagcc gagatcacgc cactgcactc cggcctgggc aaaagagcga    4680
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<210> 12546
<211> 640

<212> DNA
<213> Homo sapiens

<400> 12546
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tagggttgag tgttgttcca gtttggaaca agagtccact attaaagaac gtggactcca      180
acgtcaaagg gcgaaaaacc gtctatcagg gcgatggccc actacgtgaa ccatcaccct      240
aatcaagttt tttggggtcg aggtgccgta aagcactaaa tcggaaccct aaagggagcc      300
cccgatttag agcttgacgg ggaaagccgg cgaacgtggc gagaaaggaa gggaagaaag      360
cgaaaggagc gggcgctagg gcgctggcaa gtgtagcggt cacgctgcgc gtaaccacca      420
cacccgccgc gcttaatgcg ccgctacagg gcgcgtccat tcgccattca ggctgcgcaa      480
ctgttgggaa gggcgatcgg tgcgggcctc ttcgctatta cgccagctgg cgaaaggggg      540
atgtgctgca aggcgattaa gttgggtaac gccagggttt tcccagtcac gacgttgtaa      600
aacgacggcc agtgaattgt aatacgactc actatagggc                           640
```

<210> 12547
<211> 513
<212> DNA
<213> Homo sapiens

<400> 12547
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gagtgttgtt ccagtttgga acaagagtcc actattaaag aacgtggact ccaacgtcaa      60
agggcgaaaa accgtctatc agggcgatgg cccactacgt gaaccatcac cctaatcaag      120
ttttttgggg tcgaggtgcc gtaaagcact aaatcggaac cctaaaggga gcccccgatt      180
tagagcttga cggggaaagc cggcgaacgt ggcgagaaag gaagggaaga aagcgaaagg      240
agcgggcgct agggcgctgg caagtgtagc ggtcacgctg cgcgtaacca ccacacccgc      300
cgcgcttaat gcgccgctac agggcgcgtc cattcgccat tcaggctgcg caactgttgg      360
gaagggcgat cggtgcgggc ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct      420
gcaaggcgat taagttgggt aacgccaggg ttttcccagt cacgacgttg taaaacgacg      480
gccagtgaat tgtaatacga ctcactatag ggc                                  513
```

<210> 12548
<211> 612
<212> DNA
<213> Homo sapiens

<400> 12548
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ttcgcgttaa attttttgtta caatcagctc attgtttaac caataggccg aaatcggcaa      60
aatcccttat aaatcaaaag aatagaccga gatagggttg agtgttgttc cagtttggaa      120
caagagtcca ctattaaaga acgtggactc caacgtcaaa gggcgaaaaa ccgtctatca      180
gggcgatggc ccactacgtg aaccatcacc ctaatcaagt ttttggggt cgaggtgccg      240
taaagcacta aatcggaacc ctaaagggag cccccgattt agagcttgac ggggaaagcc      300
ggcgaacgtg gcgagaaagg aagggaagaa agcgaaagga gcgggcgcta gggcgctggc      360
aagtgtagcg gtcacgctgc gcgtaaccac cacacccgcc gcgcttaatg cgccgctaca      420
gggcgcgtcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc      480
tcttcgctat tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta      540
acgccagggt ttttcccagtc acgacgttgt aaaacgacgg ccagtgaatt gtaatacgac      600
tcactatagg gc                                                         612
```

<210> 12549
<211> 462
<212> DNA
<213> Homo sapiens

<400> 12549
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caacgtcaaa gggcgaaaaa ccgtctatca gggcgatggc ccactacgtg aaccatcacc      60
ctaatcaagt ttttggggt cgaggtgccg taaagcacta aatcggaacc ctaaagggag      120
```

```
ccccccgattt agagcttgac ggggaaagcc ggcgaacgtg gcgagaaagg aagggaagaa     180
agcgaaagga gcgggcgcta gggcgctggc aagtgtagcg gtcacgctgc gcgtaaccac     240
cacacccgcc gcgcttaatg cgccgctaca gggcgcgtcc attcgccatt caggctgcgc     300
aactgttggg aagggcgatc ggtgcgggcc tcttcgmtat tacgccagct ggcgaaaggg     360
ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt     420
aaaacgacgg ccagtgaatt gtaatacgac tcactatagg gc                        462
```

<210> 12550
<211> 640
<212> DNA
<213> Homo sapiens

<400> 12550
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aaattgtaag cgttaatatt ttgttaaaat tcgcgttaaa tttttgttaa atcagctcat      60
tttttaacca ataggccgaa atcggcaaaa tcccttataa atcaaaagaa tagaccgaga     120
tagggttgag tgttgttcca gtttggaaca agagtccact attaaagaac gtggactcca     180
acgtcaaagg gcgaaaaacc gtctatcagg gcgatggccc actacgtgaa ccatcaccct     240
aatcaagttt tttggggtcg aggtgccgta aagcactaaa tcggaaccct aaagggagcc     300
cccgatttag agcttgacgg ggaaagccgg cgaacgtggc gagaaaggaa gggaagaaag     360
cgaaaggagc gggcgctagg gcgctggcaa gtgtagcggt cacgctgcgc gtaaccacca     420
cacccgccgc gcttaatgcg ccgctacagg gcgcgtccat tcgccattca ggctgcgcaa     480
ctgttgggaa gggcgatcgg tgcgggcctc ttcgctatta cgccagctgg cgaaaggggg     540
atgtgctgca aggcgattaa gttgggtaac gccagggttt cccagtcac gacgttgtaa     600
aacgacggcc agtgaattgt aatacgactc actatagggc                           640
```

<210> 12551
<211> 640
<212> DNA
<213> Homo sapiens

<400> 12551
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tagggttgag tgttgttcca gtttggaaca agagtccact attaaagaac gtggactcca     180
acgtcaaagg gcgaaaaacc gtctatcagg gcgatggccc actacgtgaa ccatcaccct     240
aatcaagttt tttggggtcg aggtgccgta aagcactaaa tcggaaccct aaagggagcc     300
cccgatttag agcttgacgg ggaaagccgg cgaacgtggc gagaaaggaa gggaagaaag     360
cgaaaggagc gggcgctagg gcgctggcaa gtgtagcggt cacgctgcgc gtaaccacca     420
cacccgccgc gcttaatgcg ccgctacagg gcgcgtccat tcgccattca ggctgcgcaa     480
ctgttgggaa gggcgatcgg tgcgggcctc ttcgctatta cgccagctgg cgaaaggggg     540
atgtgctgca aggcgattaa gttgggtaac gccagggttt cccagtcac gacgttgtaa     600
aacgacggcc agtgaattgt aatacgactc actatagggc                           640
```

<210> 12552
<211> 654
<212> DNA
<213> Homo sapiens

<400> 12552
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ttaaatcagc tcattttta accaataggc cgaaatcggc aaaatccctt ataaatcaaa     120
agaatagacc gagatagggt tgagtgttgt tccagtttgg aacaagagtc cactattaaa     180
gaacgtggac tccaacgtca aagggcgaaa aaccgtctat caggcgatg gcccactacg     240
tgaaccatca ccctaatcaa gttttttggg gtcgaggtgc cgtaaagcac taaatcggaa     300
ccctaaaggg agcccccgat ttagagcttg acggggaaag ccggcgaacg tggcgagaaa     360
ggaagggaag aaagcgaaag gagcgggcgc tagggcgctg gcaagtgtag cggtcacgct     420
gcgcgtaacc accacacccg ccgcgcttaa tgcgccgcta cagggcgcgt ccattcgcca     480
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11408

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ctggcgaaag ggggatgtgc tgcaaggcga ttaagttggg taacgccagg gttttcccag    600
tcacgacgtt gtaaaacgac ggccagtgaa ttgtaatacg actcactata gggc           654


<210> 12553
<211> 647
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c

<400> 12553
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accgagatag ggttgagtgt tgttccagtt tggaacaaga gtccactatt aaagaacgtg    180
gactccaacg tcaaagggcg aaaaaccgtc tatcagggcg atggcccact acgtgaacca    240
tcaccctaat caagtttttt ggggtcgagg tgccgtaaag cactaaatcg gaaccctaaa    300
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aaggggatg tgctgcaagg cgattaagtt gggtaacgcc agggttttcc cagtcacgac     600
gttgtaaaac gacggccagt gaattgtaat acgactcact atagggc                  647


<210> 12554
<211> 5977
<212> DNA
<213> Homo sapiens

<400> 12554
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ctctaaaatg aggcatgggt gcctcctcac cagttagcaa tttcctaaag caaagtcttg    180
ttaatacctt gcagtaggag catcttcaag aataacaatc ttttggccgg gtgcggtggc    240
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11409

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acagataaaa tgactgtata tcaaaccatg tttgtataga aaaaatggat tttggatgcc    5100
tctcatatgt aattagttct attaaacata ttaattgtat tgtttaattt gtcaggtttt     5160
tgacagaatt ttgtttacaa gtaataaaaa ttttatctcc aattttcaat aattacaccc    5220
attatttctg ttttatgtct cattgcattg atgagatctt gcagaataat tttaaaacag    5280
```

11410

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tagtgggtat  tttctgcttt  taatgggtat  gtctagtatt  tcatatattg  ttgcttatag       5340
aacactattc  aaccaagaca  tgtcaagact  agttgtctct  caaaccatta  gtatttatat       5400
tattccttttc cagctacact  tgtaggatgt  aaaagaccat  ttccaggaat  atggaactgt       5460
tttactaggt  ggagggtata  tataaccata  taatagtcac  agaaactaca  ttaatactca       5520
cataaatcaa  agcataaatg  acatagaatc  ttggcagatt  tgcttaaggt  taaatgtata       5580
actcttatca  gcaggaggtg  aaagaatata  ttcttagata  cttggcacat  ttagaaaata       5640
taatctaata  ttctttttaa  agaataggcc  gggcacggtg  gctcacacct  gtaatcccag       5700
cactttggga  ggccaaggcg  ggcggatcac  gaggtcagga  gatcgagacc  atcctggcta       5760
acacggtgaa  accccgtctc  tactaaaaat  acaaaaaatt  agctgggcgc  ggtggcgggc       5820
acctgtagtc  ccagctactc  aggaggctga  ggcaggagaa  cggcatgaac  ccgggaggtg       5880
gagcttgcag  tgagccgaga  tcgcgccact  gcactccagc  ctgggcgaaa  gagcgagact       5940
ctgtctcaaa  aaaaaaaaaa  aaaagaata   aataaaa                                  5977


<210> 12555
<211> 640
<212> DNA
<213> Homo sapiens

<400> 12555
aaattgtaag  cgttaatatt  ttgttaaaat  tcgcgttaaa  tttttgttaa  atcagctcat        60
tttttaacca  ataggccgaa  atcggcaaaa  tccsttataa  atcaaaagaa  tagaccgaga       120
tagggttgag  tgttgttcca  gtttggaaca  agagtccact  attaaagaac  gtggactcca       180
acgtcaaagg  gcgaaaaacc  gtctatcagg  gcgatggccc  actacgtgaa  ccatcaccct       240
aatcaagttt  tttggggtcg  aggtgccgta  aagcactaaa  tcggaaccct  aaagggagcc       300
cccgatttag  agcttgacgg  ggaaagccgg  cgaacgtggc  gagaaagsaa  gggaagaaag       360
cgaaaggagc  gggcgctagg  gcgctggcaa  gtgtagcggt  cacgctgcgc  gtaaccacca       420
cacccgccgc  gcttaatgcg  ccgytacagg  gcgcgtccat  tcgccattca  ggctgcgcaa       480
ctgttgggaa  gggcgatcgg  tgcgggcctc  ttcgctatta  cgccagctgg  cgaaaggggg       540
atgtgctgca  aggcgattaa  gttgggtaac  gccagggttt  tcccagtcac  gacgttgtaa       600
aacgacggcc  agtgaattgt  aatacgactc  actataggc                               640


<210> 12556
<211> 640
<212> DNA
<213> Homo sapiens

<400> 12556
aaattgtaag  cgttaatatt  ttgttaagat  tcgcgttaaa  tttttgttaa  atcagctcat        60
tttttaacca  ataggccgaa  atcggcaaaa  tcccttataa  atcaaaagaa  tagaccgaga       120
tagggttgag  tgttgttcca  gtttggaaca  agagtccact  attaaagaac  gtggactcca       180
acgtcaaagg  gcgaaaaacc  gtctatcagg  gcgatggccc  actacgtgaa  ccatcaccct       240
aatcaagttt  tttggggtcg  aggtgccgta  aagcactaaa  tcggaaccct  aaagggagcc       300
cccgatttag  agcttgacgg  ggaaagccgg  cgaacgtggc  gagaaaggaa  gggaagaaag       360
cgaaaggagc  gggcgctagg  gcgctggcaa  gtgtagcggt  cacgctgcgc  gtaaccacca       420
cacccgccgc  gcttaatgcg  ccgctacagg  gcgcgtccat  tcgccattca  ggctgcgcaa       480
ctgttgggaa  gggcgatcgg  tgcgggcctc  ttcgctatta  cgccagctgg  cgaaaggggg       540
atgtgctgca  aggcgattaa  gttgggtaac  gccagggttt  tcccagtcac  gacgttgtaa       600
aacgacggcc  agtgaattgt  aatacgactc  actataggc                               640


<210> 12557
<211> 571
<212> DNA
<213> Homo sapiens

<400> 12557
aataggccga  aatcggcaaa  atcccttata  aatcaaaaga  atagaccgag  atagg+gttga        60
gtgttgttcc  agtttggaac  aagagtccac  tattaaagaa  cgtggactcc  aacgtcaaag       120
ggcgaaaaac  cgtctatcag  ggcgatggcc  cactacgtga  accatcaccc  taatcaagtt       180
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ttttggggtc gaggtgccgt aaagcactaa atcggaaccc taaagggagc ccccgattta    240
gagcttgacg gggaaagccg gcgaacgtgg cgagaaagga agggaagaaa gcgaaaggag    300
cgggcgctag ggcgctggca agtgtagcgg tcacgctgcg cgtaaccacc acacccgccg    360
cgcttaatgc gccgctacag ggcgcgtcca ttcgccattc aggctgcgca actgttggga    420
agggcgatcg gtgcgggcct cttcgctatt acgccagctg gcgaaagggg gatgtgctgc    480
aaggcgatta agttgggtaa cgccagggtt ttcccagtca cgacgttgta aaacgacggc    540
cagtgaattg taatacgact cactataggg c                                   571


<210> 12558
<211> 640
<212> DNA
<213> Homo sapiens

<400> 12558
aaattgtaag cgttaatatt ttgttaaaat tcgcgttaaa tttttgttaa atcagctcat     60
tttttaacca ataggccgaa atcggcaaaa tcccttataa atcaaaagaa tagaccgaga    120
tagggttgag tgttgttcca gtttggaaca agagtccact attaaagaac gtggactcca    180
acgtcaaagg gcgaaaaacc gtctatcagg gcgatggccc actacgtgaa ccatcaccct    240
aatcaagttt tttgggggtcg aggtgccgta aagcactaaa tcggaaccct aaagggagcc    300
cccgatttag agcttgacgg ggaaagccgg cgaacgtggc gagaaaggaa gggaagaaag    360
cgaaaggagc gggcgctagg gcgctggcaa gtgtagcggt cacgctgcgc gtaaccacca    420
cacccgccgc gcttaatgcg ccgctacagg gcgcgtccat tcgccattca ggctgcgcaa    480
ctgttgggaa gggcgatcgg tgcgggcctc ttcgctatta cgccagctgg cgaaaggggg    540
atgtgctgca aggcgattaa gttgggtaac gccagggttt tcccagtcac gacgttgtaa    600
aacgacggcc agtgaattgt aatacgactc actatagggc                          640


<210> 12559
<211> 639
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> n equals a,t,g, or c

<400> 12559
aattgtaagc gttaatattt tgttaaaatt cgcgttaaat ttttgttaaa tcagctcatt     60
ttttaaccaa taggccgaaa tcggcaanat cccttataaa tcaaaagaat agaccgagat    120
agggttgagt gttgttccag tttggaacaa gagtccacta ttaaagaacg tggactccaa    180
cgtcaaaggg cgaaaaaccg tctatcaggg cgatggccca ctacgtgaac catcacccta    240
atcaagtttt ttggggtcga ggtgccgtaa agcactaaat cggaaccct a aagggagccc    300
ccgatttaga gcttgacggg gaaagccggc gaacgtggcg agaaaggaag gaagaaagc    360
gaaaggagcg gcgctaggg cgctggcaag tgtagcggtc acgctgcgcg taaccaccac    420
acccgccgcg cttaatgcgc cgctacaggg cgcgtccatt cgccattcag gctgcgcaac    480
tgttgggaag ggcgatcggt gcgggcctct tcgctattac gccagctggc gaaaggggga    540
tgtgctgcaa ggcgattaag ttgggtaacg ccagggtttt cccagtcacg acgttgtaaa    600
acgacggcca gtgaattgta atacgactca ctatagggc                           639


<210> 12560
<211> 648
<212> DNA
<213> Homo sapiens

<400> 12560
gcatcaggma attgtaagcg ttaatatttt gttaaaattc gcgttaaatt tttgttaaat     60
cagctcattt tttaaccaat aggccgaaat cggcaaaatc ccttataaat caaaagaata    120
gaccgagata gggttgagtg ttgttccagt ttggaacaag agtccactat taaagaacgt    180
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11412

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ggactccaac gtcaaagggc gaaaaaccgt ctatcagggc gatggcccac tacgtgaacc      240
atcaccctaa tcaagttttt tggggtcgag gtgccgtaaa gcactaaatc ggaaccctaa      300
agggagcccc cgatttagag cttgacgggg aaagccggcg aacgtggcga gaaaggaagg      360
gaagaaagcg aaaggagcgg gcgctagggc gctggcaagt gtagcggtca cgctgcgcgt      420
aaccaccaca cccgccgcgc ttaatgcgcc gctacagggc gcgtccattc gccattcagg      480
ctgcgcaact gttgggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg      540
aaagggggat gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtcacga      600
cgttgtaaaa cgacggccag tgaattgtaa tacgactcac tatagggc                   648


<210> 12561
<211> 624
<212> DNA
<213> Homo sapiens

<400> 12561
tattttgtta aaattcgcgt taaatttttg ttaaaccagc tcattttta accaataggc       60
ggaaatcggc aaaatccctt ataaatcaaa agaatagacc gagatagggt tkagtgttgt      120
tccagtttgg aacaagagtc cactattaaa gaacgtggac tccaacgtca aagggcgaaa      180
aaccgtctat cagggcgatg gcccactacg tgaaccatca ccctaatcaa gttttttggg      240
gtcgaggtgc cgtaaagcac taaatcggaa ccctaaaggg agcccccgat ttagagcttg      300
acggggaaag ccggcgaacg tggcgagaaa ggaagggaag aaagcgaaag gagcgggcgc      360
tagggcgctg gcaagtgtag cggtcacgct gcgcgtaacc accacacccg ccgcgcttaa      420
tgcgccgcta cagggcgcgt ccattcgcca ttcaggctgc gcaactgttg ggaagggcga      480
tcggtgcggg cctcttcgct attacgccag ctggcgaaag ggggatgtgt gcaaggcga      540
ttaagttggg taacgccagg gttttcccag tcacgacgtt gtaaaacgac ggccagtgaa      600
ttgtaatacg actcactata gggc                                            624


<210> 12562
<211> 509
<212> DNA
<213> Homo sapiens

<400> 12562
gttgttccag tttggaacaa gagtccacta ttaaagaacg tggactccaa cgtcaaaggg       60
cgaaaaaccg tctatcaggg cgatggccca ctacgtgaac catcacccta atcaagtttt      120
ttggggtcga ggtgccgtaa agcactaaat cggaaccCta aagggagccc cgatttaga      180
gcttgacggg gaaagccggc gaacgtggcg agaaaggaag ggaagaaagc gaaaggagcg      240
ggcgctaggg cgctggcaag tgtagcggtc acgctgcgcg taaccaccac acccgccgcg      300
cttaatgcgc cgctacaggg cgcgtccatt cgccattcag gctgcgcaac tgttgggaag      360
ggcgatcggt gcgggcctct tcgctattac gccagctggc gaaggggga tgtgctgcaa      420
ggcgattaag ttgggtaacg ccagggtttt cccagtcacg acgttgtaaa acgacggcca      480
gtgaattgta atacgactca ctatagggc                                       509


<210> 12563
<211> 654
<212> DNA
<213> Homo sapiens

<400> 12563
aaatacgcat caggaaattg taagcgttaa tattttgtta aaattcgcgt taaatttttg       60
ttaaatcagc tcattttta accaataggc cgaaatcggc aaaatccctt ataaatcaaa      120
agaatagacc gagatagggt tgagtgttgt tccagtttgg aacaagagtc cactattaaa      180
gaacgtggac tccaacgtca aagggcgaaa aaccgtctat cagggcgatg gcccactacg      240
tgaaccatca ccctaatcaa gttttttggg gtcgaggtgc cgtaaagcac taaatcggaa      300
ccctaaaggg agcccccgat ttagagcttg acggggaaag ccggcgaacg tggcgagaaa      360
ggaagggaag aaagcgaaag gagcgggcgc tagggcgctg gcaagtgtag cggtcacgct      420
gcgcgtaacc accacacccg ccgcgcttaa tgcgccgcta cagggcgcgt ccattcgcca      480
ttcaggctgc gcaactgttg ggaagggcga tcggtgcggg cctcttcgct attacgccag      540
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```
ctggcgaaag ggggatgtgc tgcaaggcga ttaagttggg taacgccagg gttttcccag     600
tcacgacgtt gtaaaacgac ggccagtgaa ttgtaatacg actcactata gggc           654


<210> 12564
<211> 546
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<400> 12564
ttataaatca aaagaatagn ccgagatagg gttgagtgtt gttccagttt ggaacaagag      60
tccactatta aagaacgtgg actccaacgt caaagggcga aaaaccgtct atcagggcga     120
tggcccacta cgtgaaccat caccctaatc aagttttttg gggtcgaggt gccgtaaagc     180
actaaatcgg aaccctaaag ggagcccccg atttagagct tgacggggaa agccggcgaa     240
cgtggcgaga aaggaaggga agaaagcgaa aggagcgggc gctagggcgc tggcaagtgt     300
agcggtcacg ctgcgcgtaa ccaccacacc cgccgcgctt aatgcgccgc tacagggcgc     360
gtccattcgc cattcaggct gcgcaactgt tgggaagggc gatcggtgcg ggcctcttcg     420
ctattacgcc agctggcgaa aggggatgt gctgcaaggc gattaagttg ggtaacgcca     480
gggtttccc agtcacgacg ttgtaaaacg acggccagtg aattgtaata cgactcacta     540
tagggc                                                               546


<210> 12565
<211> 654
<212> DNA
<213> Homo sapiens

<400> 12565
aataccgcat caggaaattg taagcgttaa tattttgtta aaattcgcgt taaattttttg     60
ttaaatcagc tcattttta accaataggc cgaaatcggc aaaatccctt ataaatcaaa     120
agaatagacc gagatagggt tgagtgttgt tccagtttgg aacaagagtc cactattaaa     180
gaacgtggac tccaacgtca aagggcgaaa aaccgtctat cagggcgatg gcccactacg     240
tgaaccatca ccctaatcaa gttttttggg gtcgaggtgc cgtaaagcac taaatcggaa     300
ccctaaaggg agcccccgat ttagagcttg acggggaaag ccggcgaacg tggcgagaaa     360
ggaagggaag aaagcgaaag gagcgggcgc tagggcgctg gcaagtgtag cggtcacgct     420
gcgcgtaacc accacacccg ccgcgcttaa tgcgccgcta cagggcgcgt ccattcgcca     480
ttcaggctgc gcaactgttg ggaagggcga tcggtgcggg cctcttcgct attacgccag     540
ctggcgaaag ggggatgtgc tgcaaggcga ttaagttggg taacgccagg gttttcccag     600
tcacgacgtt gtaaaacgac ggccagtgaa ttgtaatacg actcactata gggc           654


<210> 12566
<211> 327
<212> DNA
<213> Homo sapiens

<400> 12566
acgtgcacgt cagagcggtg gcccaacctg aagtaatccc cctttcccct gagaggaggc      60
ccgtggtgga gtgttacaat acggttatgg tcttaccatg cgatacaaga agacactcat     120
tgtctcacat cttttcacagc cagctcaatg acatcacaca cagcacccaa ggtcttcgaa     180
cttgtattca aaatcataca ccattaattc aaattaactt attaagtcag ctgggaaaaa     240
ccttaatacc ttaatacatg ttctacaata tttaagttac tgttgtaggt tttcatatag     300
actgaaaata agacacacta ctgcaaa                                        327


<210> 12567
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11414

<211> 327
<212> DNA
<213> Homo sapiens

<400> 12567

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acgtgcacgt cagagcggtg gcccaacctg aagtaatccc cctttcccct gagaggaggc      60
ccgtggtgga gtgttacaat acggttatgg tcttaccatg cgatacaaga agacactcat     120
tgtctcacat ctttcacagc cagctcaatg acatcacaca cagcacccaa ggtcttcgaa     180
cttgtattca aaatcataca ccattaattc aaattaactt attaagtcag ctgggaaaaa     240
ccttaatatc ttaatacatg ttctacaata tttaagttac tgttgtaggt tttcatatag     300
actgaaaata agacacacta ctgcaaa                                          327
```

<210> 12568
<211> 208
<212> DNA
<213> Homo sapiens

<400> 12568

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ctcttagaag tttacccaag agaatttcaa gtggatgtcc atacacaaac ttgtatggaa      60
atgtccatta gcaatttcac ttgcatagtc aaaaactgga aacagcccaa acattcatca     120
acagaaaaat ggatgaacaa attgcatttg tttatcttaa gatactattc aacaatttaa     180
aagaataaac tattgataca tgcaacgt                                         208
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<210> 12569
<211> 4702
<212> DNA
<213> Homo sapiens

<400> 12569

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gtgccaatgt tggccagtcg cggtggttca cgcctgtaat cccagcactt tgggaggctg      60
aggtgggtgg atcacgaggt caggagattg agaccatcct ggctaacacg gtgaaacccc     120
atctctacta aaaatacaaa aaaattagcc gggcatggtg gcagacacct gtagtcccag     180
ctactcggga ggctgaggca ggagaatggt gtgaaccccg gaggcggagc ttgcaatgag     240
ctgagattgt gccactgcat tccagcctgg gcgatagagc gagactccat ctcaaataaa     300
taaataaata aatagtgcca atgttatgac cagaggcagc aaggcctgac acagcatcca     360
aggccagtct gggcacctgc tcttttgcac attaatataa taagctttaa caagaaatac     420
atgttaactt tctcaggatc aaaggattca gaaggctatt ttgctctcat tttatcctta     480
ggcttcagca gaagaaacac ttcctataaa tctcgcccaa acaggaaagg taagtggcct     540
aaaatttttc tagtattttc aaaatgaccc agttacaata ggaaatttct tcttgtacta     600
ttgtcactaa tcccgactca atatccttta aaggacaaag atgcatgcat aagtaaaaat     660
atgacaggtc acaatcacgc cggggtggtc ctggggcgag gcccaagttc cctgcacgca     720
ccggcacaag cacgcacact gtgatgggga ggacgtttac gtaccatgtc cacaccactc     780
cagacttggt gagcgccagt aggaactgag ctccacactc aatctggcac accccctgtc     840
catttagtct ctcaatgttc tggggaatgt tgcagccttc acttccgccc cggcccaatt     900
ttccaaagtc accatcaccc caggaaaata ccaaacctag gtttaaaaat agggaaggga     960
agggaaggga gagaagaaag gaaagataaa gaaagcccaa cctccttcca aaatgtcatg    1020
agaatcttga gcacatatgg tccttggcat gaccacatga cctgcagagc ccctgttata    1080
gaactcattt ttatattttc cttagtataa cagttaatgt aatatgtcat ttttgttaat    1140
agtgtctttt tgtcatttta ctttttaaaa gattgtattg aaatatacat acaggaaagt    1200
gcatctatca taagtgtgca aattgatgaa ttctaaaatc tttattgtac ctgtttagca    1260
cctagattga cactgaacat aactaacaac cagaaatctc cgtgtactcc cttcctgtaa    1320
ctacccctgc gcccgaccaa atcactctct ctaacagca taactttgtg tgactagctt     1380
ttttaatgta aaagaatgaa atctacagca tgtattcatt tgcatctggc ttctgccacc    1440
caacattata tttgtgggat tcatttgtac agttgcatat tagtttgcag atccctcact    1500
ctcgtttcta tatggtatta tattgcataa acgtaccaca ctttatctaa ctactgttaa    1560
atatttgtgc atcttctact tgggggcgat ttcaaatagt gctgctatga acattcttgt    1620
aaatgtcttt tggtgaacat atgcaacaca tatatgcgtt gttgttggtt cccaggaggg    1680
gcattcctgg gtcataaaca atgcatgtgt tcaggtttag tatggtataa tgccaaacag    1740
gtttccaaag tgtttgtgcc actttacata cccgccatta ttgaaaaaga gttctgtttg    1800
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ctccacattt tcaccaatac ttgatatttt gttttttttt cttttaaacc gtactagtgg   1860
gtgtgcagtg atattgcaat gtggttttaa tttgcatctt ccttgtgaca aattaacctt   1920
gattactgta agccacttgg aaatgtgatt taaattcata taaagatata gtagcaaaac   1980
acatagtaag ttactttcat atccagaaag tttagataga atgatttcta tgtaagcttt   2040
tactgtgtag tctgagtcca tgaatattga ttacaaaaaa cacatctgta ggtgagttac   2100
aatacctcac ttataattca aaattcatgt tgtgttagct caatattttt caaataattt   2160
ttgcatgcaa tttttcacctt ctttctgagt agtttcaggt attttgtatg gttccagcag   2220
tcagttaggt tgccattgtt tggaagcaca catccacgta tctgcaccat gatgatatga   2280
cacgcccata cccccattt cacattttgt cagaagtgca tagttatcac taactttgcc   2340
agtagaaatg tactcccaat ttcccacaga cttatcttga ataatctctc cactgaagca   2400
taacaggttt tgaattctgt tagaatagtt gttttttacta tcttttaatt ttatacaaat   2460
ttcaaagtta cgtaatactt ttatttaaaa agtgaaacaa agcttttcct ctcccttacc   2520
cacatgttag cccagcagag ggggaaagca ttggccccag gccaaaatca taaacgcttt   2580
caattaacta ataataattg ctggcatgtt gccattaaat atccttgtct cattatccct   2640
ggttgcttca tcagacccat aggtcactga agcccacttt tgagacaaag actatttctc   2700
ccccaaaagt caagggaaat ataaaaagtg aaattagtga ttaagcatag aagtcaatta   2760
atacaatcat tttgtcttaa ttatttaaag tccagttttt ttcctccagc aaacctgaaa   2820
atacactatc ctccagctat cagaattata ttgagatcta ctcacattta tgatgatgtt   2880
cagagattca tcattgggaa ggaaaatgca cacgctgcgg cggtcttgca tgactctgtt   2940
gtggaaattc aatttgttca ttgtgttttg ggctctctgg gtggtcaggg ctgggctctg   3000
ggtccttggc aattcctcag gttcccagca ctccaaagcc aagctcacct cctcatcaca   3060
cgccctgcag gagaagcatc agggtgtccg actacgtggg tttcatagct gtggaaaagc   3120
caaaggggag actcctgaag aaaggcggtg aagactgtga agagcgggtc aggaagatga   3180
gcacagcact gctactcctg tgggcacagg gacagcatgt ctccagccag cgccaccttg   3240
tttaatacat gggaactcac tgaaattcat tctgtatttt gcccacaaag ttttaaagct   3300
ttcatccaca gtcaggaatt aaacttatac caatgagagc ctcacacatt caaggatgta   3360
ctaagcacta caggcctcac agaaacagag atcccatctt ggagtttтca gtcccacatg   3420
ggagataaag ggttttgaac atgaaatgac aaaaacaaca gcaagaagaa aattctcgtc   3480
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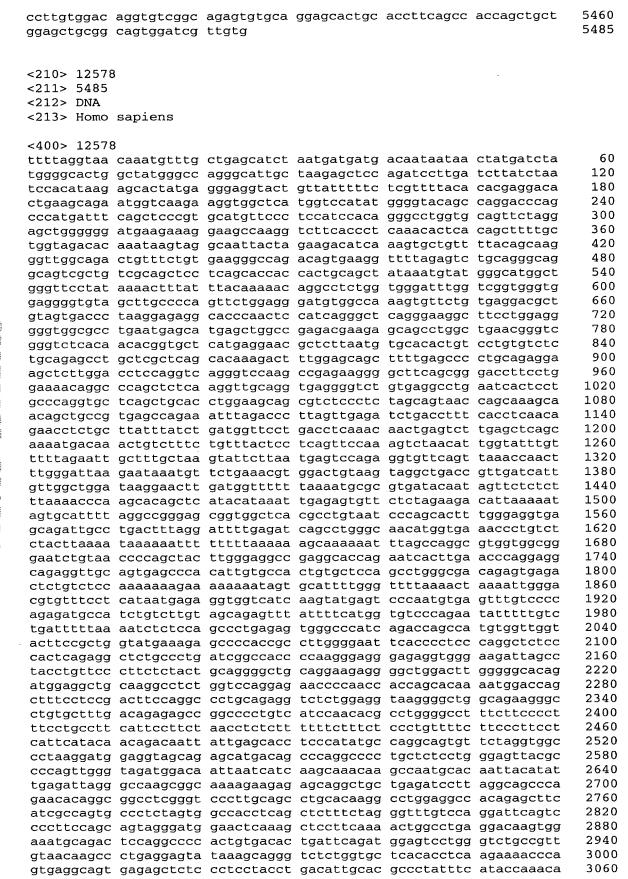
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11417

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11419

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